WORLD'S FINEST

ELECTRONIC SURPLUS

57th ANNIVERSARY

1947 2004

CATALOG WS-04
MANY NEW ITEMS
CHECK EVERY PAGE!

WIRE Tie Deals !!

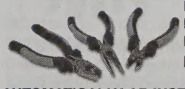
1000 piece CABLE TIES IN PLASTIC CAN.
0.1 x 3.9": 100 pcs blue, 100 pcs red, 100 pcs white, 100 pcs yellow
0.14 x 5.9": 100 pcs white, 100 pcs blue, 100 pcs green
0.14 x 7.9": 200 pcs white
0.14 x 11.8": 100 pcs white
Material: polyamide (nylon 6.6) as specified in MIL-S-23190 self-extinguishing. Temperature: -40F to +230F. #K/TF1000, New, $11.95

As above but 300 piece kit.
0.1 x 3.9": 25 pcs green, 25 pcs yellow, 25 pcs black, 25 pcs red, 50 pcs transparent
0.14 x 7.9": 50 pcs red, 50 pcs blue, 50 pcs transparent
#K/TF300, New, $4.50

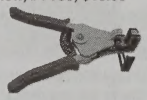
Deluxe Test Lead Set

Deluxe Test Lead Kit has two each of the following: Test leads 54" long, alligator clips with protective boot, spade lugs, sharp pin tips, short dull pin tips, long dull pin tips, and banana plugs. Comes in a protective plastic case. #TL-102, New, $5.95 each; 2 for $10.00

Tools



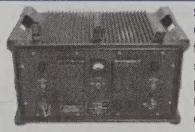
HEAVY DUTY TOOL SET - 3 PCS. Universal pliers, heavy-duty cutter, long nose pliers. New, #VT33, $13.95



AUTOMATICALLY ADJUSTING WIRE CUTTER/STRIPPER. Strips 8-18 AWG. New, #VTSTRIP2, $9.98

For more great deals on tools go to pgs: 2, 36-38

60 Hz - 400 Hz Converter



Static Frequency Converter, Input 120V 60Hz to 117V 400Hz 500 watts single phase. Overload protection. With maintenance manual, power input cable and connector for output. 21x12x15, 120 lbs sh. Unused, #CV-2488, $349.00

Vacuum Capacitor

Ceramic Vacuum Variable Capacitors. Each capacitor has a 3/8" dia. shaft with removable pin. Used.

500pf at 15KV, 3 5/8"D x 8 1/2"H, 7 lbs sh. #CVDD-500-15, $275.00

300pf at 10KV, 3 5/8"D x 8 1/2"H, 7 lbs sh. #CVDD-300-10, $245.00

200pf at 10KV, 3 5/8"D x 8 1/2"H, 7 lbs sh. #CVDD-200-10, $245.00

Sincgars Radio Mount

MT-6352/VRC Mount used with various sincgars radios and amplifiers. These are reconditioned with bag of mounting hardware. 23 lbs sh. #MT-6352, $125.00

62 Pcs Security Bit Set

M5, M6, M8
C1, C2, C3
1/8", 3/16"
2mm X 2mm X 2mm
S0, S1, S2, S3
1, 2, 3, 4, 5
0, 1, 2
Wing nut driver
6, 8, 10
PZ0, PZ1, PZ2
4, 6, 8, 10, 12
T-5, T-5, T-6, T-7, T-8, T-10, T-15, T-20, T-25, T-27, T-30, T-40
2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm, 8mm, 5/64", 3/32", 7/64", 1/8", 9/64", 5/32"

1 Piece 1/4" x 60mm magnetic bits holder, 1 Piece bits holder socket, 1 Piece socket adapter, 1 Piece rachet screwdriver. New, #800-081, $18.53

HF Doublet Antenna

This high quality 2-30MHz Doublet Antenna System uses 10 sections 2 inch OD aluminum tubing with associated guys for support. 840 watts. Includes swivel base, 10 each 2 inch mast sections, guys, stakes, dipole elements and fixture, 50 ft RG-58 coaxial cable, heavy duty military style canvas carrying case. 1 lb hammer. 35 lbs sh. #S-1905, Unused, $259.50

AS-3900 Antenna

AS-3900A broadband vehicular whip antenna for use with Sincgars radios. 30-88 Mhz 150 watts with a maximum VSWR of 3.5:1. Includes base and two antenna sections. 12 lbs sh. #AS-3900, Unused, $325.00
#BO-3900, Base only, used $75.00

Cubic R3030 IF Section

FIRST IF SECTION CUBIC FRONT END CONVERTER AMPLIFIER FROM CUBIC R3030 HF RECEIVER. This module was the first gain and first conversion module in this premium receiver. First conversion used LO 40.455 - 70.455 Mhz, and second conversion used fixed LO of 40.455 Mhz to produce the IF output of 455 Khz. These oscillator signals came from another module which is not available. This module has the factory seals on it and is in excellent condition. 4.2x8.1x1, 3 lbs sh. #2140-1102, $70.00

Dual DC Meter

Aircraft Volts/Amps Dual DC Meter. Two independent meter movements 0-30VDC and 0-300ADC FS=50mv. Meter comes with a 30A shunt to make the package complete. Index adjust for each scale. Cal adjust for volts. 2.5" square. Shunt used. Meter unused. 2 lbs sh. #3202-815, $85.00

ORDERING INFORMATION
SEE PAGES 18 & 19

MINIMUM ORDER $10.00 + SHIPPING

Fair Radio Sales

2395 St. Johns RD • Lima, Ohio 45802
419-223-2196/227-6573 • 24 Hr. FAX 419-227-1313
WEBPAGE: www.fairradio.com EMAIL: fairradio@fairradio.com

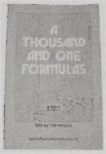
This is the only catalog that will be sent this year. A supplement will be sent in the fall.

Interesting Books

"Magnetic Amplifiers", Magnetic Amplifiers Another Lost Technology by the U.S. Navy (1951), edited by Trinkaus. First came the vacuum tube, then the transistor, right?. Not really. In between there is another lost entity. Electronics engineers of the 1950's believed the rugged little magnetic amplifier was going to replace the fragile vacuum tube in all its functions under a megacycle. The mag amp not only can regulate but can magnify, modulate, switch, pulse-generate, invert, convert, multivibrate, phase shift, and multiply. Modulate your Tesla coil with a mag amp. 43 illustrations.

"Magnetic Amplifiers Bibliography", A supplement to Magnetic Amplifiers. Most of the citations are of patents you can still easily access. There are also citations of scientific and engineering journal articles, of military documents, and of procedings of the Institutes of Electrical, Electronics and Radio Engineers. Entries range all the way from the year 624 BC to 1951. A must for further research into the lost technology of the magnetic amplifier.

#BK-MAGNETIC, Get BOTH books for a SPECIAL PRICE! List Price, $15.50; Our price, $11.95



A THOUSAND AND ONE FORMULAS. Back in 1920 people were hot to set up their own laboratories and invent something and become rich. Experimenter Publishing Company published books and magazines to wet their appetite. They reprinted the best information from the magazines in this book. Get formulas on cements and glues, metal-craft, photography, chemical lab hints, mechanical lab hints, electrical lab hints, and many more. Fun and interesting read. 160 pp. #BK-1001, $9.95

SIMPLE SCIENTIFIC EXPERIMENTS. Describes 46 instructive experiments in electricity, magnetism, hydraulics, hydrostatics, light and acoustics. From a century ago. Build a model hydraulic ram, accoustic fountain, flour explosive, manufacture of gas, static electric motor, cheap x-ray tube, electromagnetic gun, pea suspended in air, HF currents, decompostion of steam with induction coil, fiery or flaming vortex ring, thermo-electric currents and more. Simple, fun experiments. 69 pp. #BK-SIMP, $8.95

VACUUM TUBE REGENERATIVE RECEIVER. Build your first regenerative receiver. You'll see where the parts come from, how they're chosen, and how they're made to work together. This will be a real working receiver that was built from salvaged material on hand. Tube regen receiver are easy-to-build and very low-cost. 128 pp. Includes directions and schematics. #BK-REGEN, $9.95

Hex Wrench Set

HEX KEY WRENCH SET - 8PCS. Hex: 0.06", 0.08", 0.10", 0.12", 0.14", 0.16", 0.20", 0.24". New, #VTHEX8, $0.99

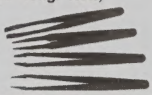
Diamond Files

SET OF DIAMOND FILES - 10PCS. Powder-coated. 4.7" long. New, #VTDF1, $11.95

SET OF DIAMOND FILES - 5PCS. Powder-coated. 5.5" long. New, #VTDF2, $6.95

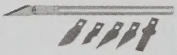
Tweezers

SET OF 4 TWEEZERS. Anti-magnetic stainless steel. 1 x bent nose, 1 x flat spade, 1 x self-closing and 1 x normal. 5.3" long. New, #VTTWSET, $2.99



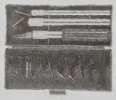
SET OF 4 TWEEZERS - NON-CONDUCTIVE. 5.3" long. New, #VTTWSET2, $2.99

Knives & Knife Sets



PRECISION KNIFE WITH 5-PC BLADE SET. 5.7" long. New, #VTK1, $2.50

HEAVY-DUTY KNIFE WITH 5-PC BLADE SET. 5.1" long. New, #VTK2, $2.99



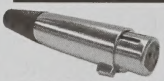
13-PC HEAVY-DUTY KNIFE SET. Contains 3 cutters with blade and 10 spare blades. New, #VTK7, $3.99

Utility Knife with lock. Blade smaps off for sharp tip. 4.9" long. New, #VTK3B, 2 for $1.00; 5 for $2.00

As above except: Plastic handle with metal protection, 6.3" long. New, #VTK5, $1.19
Twelve spare blades for above, #VTKSB1, $1.99

Utility Knife with metal housing. High-Q lock button. Set of spare blades. 6.1" long. New, #VTK4, $2.50
Five spare blades for above, #VTSB3, $0.99

XLR Connectors



3 Pin XLR Nickel-Plated Long type. Solder connection. New,

3.2" long Jack, #CA096, $1.89 ea: 2/$2.99
2.8" long Plug, #CA097, $1.89 ea: 2/$2.99

Short Type version of above. New,
2.8" long Jack, #CA092, $1.89 ea: 2/$2.99
2.4" long Plug, #CA093, $1.89 ea: 2/$2.99

Short type version as above except 4 pin. New,
Jack, #CA102, $1.89 ea: 2/$2.99
Plug, #CA103, $1.89 ea: 2/$2.99

3 Pin XLR Panel-Mount Nickel Plated Jack. New,
Jack, #CA104, $1.89 ea: 2/$2.99
Plug, #CA105, $1.89 ea: 2/$2.99

As above except 4 pin. New,
Jack, #CA108, $1.89 ea: 2/$2.99
Plug, #CA109, $1.89 ea: 2/$2.99

Fair Radio buys your excess material. We may be interested in some items in low quantities, but prefer higher quantities for our catalog sales.

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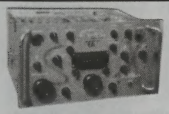
R-390A HF Receiver



R-390A/URR RECEIVER famous military set covers 0.5 to 32 Mhz AM-CW-MCW in 31 one Mhz bands read directly on mechanical digital counter. 455 Khz final IF; has four mechanical filters allowing 2-4-8-16 Khz selectable bandwidth. Calibration points every 100 Khz; also BFO, AGC, dial locks, 600 ohm audio out, Line and Carrier Level meters. Uses 24 electron tubes; also twinax (balanced) and type C (unbalanced) RF conn. Rackmount; LESS METERS & COVERS. Requires 115/230 V 60 Hz. 0.5x19x16.8, 84 lbs.
#390A-UR, USED-REPARABLE, $325.00;
#390A-CH, CHECKED, $520.00
#390A-CH-SM, Checked with substitute meters, $575
MANUAL, partial repro, #MM-R-390A, $17.00

- - - - - - - COVERS FOR R-390A- - - - - - -

Hard to find aluminum replacement top and bottom covers for R-390A series. Very close to original.
Newly manufactured, #390-TB, $54.95
RF Cover, Newly manufactured, #390-RF, $14.95
Set: top, bottom, & RF; newly mfg, #390-S, $65.95

****

Replacement assemblies & parts for the R-390A:

CRYSTAL OSCILLATOR (no crystals) #390A-CO,	$20
CRYSTAL, BAND, #390A-(crystal freq.)-CR,	$10 ea 5/$35
DIAL, COUNTER, #390A-DC,	$18.00
GEARS, #39, #390A-G-39 or #21, #390A-G-21,	$7
GEARS others, #390A-G-(specify#),	$3
GEAR CLAMPS, 1/4" only, #390A-GC,	$2.
HANDLES per pair, #390A-HAND,	8.00
KNOBS, small size, #390A-SM,	$3.00
KNOBS, medium size, #390A-MED,	$3.00
POWER SUPPLY without tubes, #390A-PS,	$25.00
TRANSFORMER, RF, #390A-RF- (specify #)	$9.50
TRANSFORMER, IF, #390A-IF- (specify #)	$9.50
SLUGS only, RF, #390A-SL-RF,	$3.50
SLUGS only, Variable IF, #390A-SL-RF,	$3.50

VFO from R-390A HF receiver with 5749 tube; various mfg (no choice). 4x3x7.5, 4 lbs, used dented less connectors & coupler "as-is", #VFO/R390A,$22.50

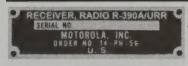
455KHz Beat Frequency Oscillator for famous HF Receiver R-390A. UNUSED CONDITION! 3.3x1.5, 2 lbs sh. #390A-BFO, $27.50

I.F. DECK for R-390A IF transformers, Z501 and 455KHz crystal, and tubes. Less all four 455KHz mechanical filters, BFO, RT510 ballast and tube shields; 4 lbs. #IF/390A, "as-is" $45.00

AUDIO AMPLIFIER SECTION for R-390A receiver; includes AF transformers, chokes, and tubes; 8 lbs sh. "AS-IS", less J620 chassis connector, C603/606 capacitors, and tube shields. #AF-R390A, $30.00

Test Connectors to make test extender cables for R-390A receiver. You receive the 5 male/female connector pairs with covers to make the following extender cables along with instructions from manual: P110-J410(Crystal Osc), P111-J8111/P119-J619 (Power supply/Audio), P120-J620(Audio), P112-J512(IF Amplifier), P108-J208/P109-J709(RF Amplifier/VFO). #390A-CON,$59.95

R-390A Name Tags



Reproduction Name Tags for R-390A radios. Multiple mfg available. New, $21.99 each

Motorola Large Print, 3"Wx7/8"H, #TML390
Motorola Small Print, 3"Wx7/8"H, #TMS390
Collins, 2.5"Wx1"H, #TC390
Electronic Assistance Corp., 2.5"Wx1"H, #TE390
Stewart-Warner, 2.5"Wx1"H, #TS390

R-392 HF Receiver

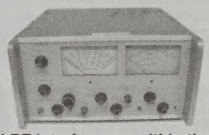
R-392/URR RECEIVER , 0.5 to 32 MHz AM-CW in 32 one MHz bands using mechanical digital tuning. Triple conversion on lower 8 bands, double on others. Selective bandwidth 2, 4 or 8 KHz; 100 KHz xtal calibrator. With 25 tubes: 26A7, 26A6, 26C6, 26D6, 6AJ5, 12AU7. Requires 24-28 VDC 5 amps. Rugged vehicular version of R-390 receiver. 11.5x14.3x11, 58 lbs sh.
#392-UR-WO, Used Reparable less knobs and meter, $245.00
#392-UR-W, Used Reparable w/ substitute knobs and meter, $295.00
#392-UR-CH, Checked w/ sub knobs & meter, $395
Original style knobs but color may not be identical.

MANUAL for R-392, partial repro, #MM-R-392, $17
SPEAKER for R-392, #LS-166, Unused, $35.00
Bracket for LS-166, #166-BR, $3.00

CV-278 Freq Shift Converter

CV-278/GR Frequency Shift Converter for the R-392 HF Receiver. Converts frequency shift signals to neutral or polar marking or spacing DC impulses. 450-500 KHz input, 20/60 ma or polar output for teletypewriter. Uses tubes 8/26A6, 2/26A7. 9.1x13.8x7.3, 22 lbs sh. Less meters and knobs. #CV-278, Used, $25.00

RFI Receivers



Singer model #NM-17/27 is a programmable, precision electromagnetic interference/field intensity meter for the measurement of conducted or radiated RF interference, within the frequency range of 10KHz to 32 MHz. May be used as a VLF unit. The instrument may be used to analyze narrowband or broadband signals within its frequency range. Field intensity or direct peak detector functions may be used for measurements in addition to quasi-peak, slide-back peak and BFO detection modes. AM, FM and PM signals may be detected and are available at the video output receptacle for oscilloscope display. Requires 115/230V at 50 to 400Hz. 18.5x16.7x8.7, 55 lbs sh. #NM-17/27, Used reparable with manual repro, $695.00

#NM-17/37 same as above except 20MHz-1GHz, $995

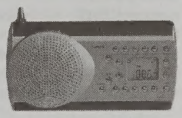
#NM-26T Stoddart type, EMI Rcvr, 150KHz-32MHz, $595

FAIRCHILD ELECTRO-METRICS R-70B RFI RECEIVER uses 9 tuning heads covering 0.1 to 1100 MHz; with two cases & manual, #R-70B, $1200.00

ILS Receiver

FA-8766 PORTABLE ILS TEST RECEIVER, covers 108.1 to 111.9 (5uv sens) and 329.3 to 335.0 (25 uv) Mhz with separate crystal controlled front ends feeding a common 60 mhz IF through a combiner and then converted to a 3 Mhz second IF. The RF and IF sections are in cast metal shielded assemblies. The solid state receiver has audio and AGC detectors. The audio circuits have 90 and 150 hz bandpass filters, the audio is rectified and the output used to drive the DC meters. This unit is a good basis for modification and experimentation. Power input 120 vac or 18 vdc. Receiver has nicad battery/charger circuit. No warranty as to serviceability of battery. See our web page for more pictures. 10.1x9.5x12, 23 lbs sh. Crystals not included. With schematic/info.
#FA-8766, Used $39.50; 4 for $100.00

C. Crane Radios



The Freeplay Summit is a top end radio combining unparalleled sound quality with the reliability of multiple power options: wind up generator, solar and rechargeable battery pack. 4 bands: 88-108MHz, 540-1650KHz, 5.95-15.6MHZ, and 146-281KHz. Digital tuning, 30 station presets, and a LCD digital display panel with backlight. 3.1x6.7x3.5, 4 lbs sh. #FRS, New, $99.95

The Freeplay Plus combines a Baylis Clockwork Generator with advanced radio technology, a magnetic, detachable White LED light with 6-foot reel-up cord, and a solar panel. AM/FM and continuous coverage of 10 SW bands from 3.0 to 18.1 MHz. 4 way power system: wind up generator, built-in solar panel, built-in rechargeable battery pack with the optional AC adapter. New, #FRP, ~~$129.95~~ *SPECIAL*, $99.95

Digital Wireless FM Transmitter. Wireless transmission of ANY audio to any FM Radio! Listen to streaming audio from your computer on your kitchen radio. Send your satellite radio audio to your home stereo system. Wireless transfer of MP3 audio to your car or home stereo system. It's easy to use. Plug the transmitter into the headphone jack or line out jack of any audio device, set the transmitter to any FM frequency and tune any FM radio to the same frequency. Full stereo on any FM frequency. Line of sight range of around 70 feet. Clean and stable digital tuning. Runs on included AC adapter or (2) optional "AA" batteries (not included). 3.1"Wx3.5"x1.1". 2 lbs sh. #FMT, New, ~~$99.95~~ *SPECIAL*, $79.95

Everything you need to use your FM Transmitter in your car or truck. Kit includes: Vent Clip Mount, 12 Volt into 5 Volt Power Adapter, and Cigarette Lighter Splitter. #FMK, New, $29.95

VISIT OUR WEBSITE AT FAIRRADIO.COM

COLLINS 208U-3A

208U-3A POWER AMP automatically tunable over 2 to 30 Mhz SSB-AM-CW @ 3 KW PEP for use with URG-2 radios. Uses 4CX5000 PA tube; tune time 6 sec nominal, 10 sec max. With modules 333H-2 Electronic Control Amp, 309F-1 Digital to Analog Converter, 915V-2 Amp Control, 652J-13 Power Supply, 599Z-1 Test Panel and 915X-1 Control Monitor. Includes manual copies for all components except 915X-1 & 599Z-1.
72.5x32.6x31; 1200 lbs shipping.
#208U-3A, Used not tested less 4CX5000, $3200.

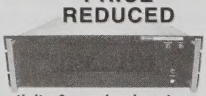
HF-80 KW Power Amp

ROCKWELL HF-8023 POWER AMPLIFIER, solid-state 1 KW (avg) amp utilizes one driver plus four 250 W power modules to achieve rated output; VSWR: 1.3:1. Designed for use with HF-8014A exciter and power supplies HF-8031 or 8032. Cables & manuals not available. HF-8023 (622-3490-207): 10.5x19 x25, 62 lbs sh.
#HF-8023, USED, not tested, $2950.00

HF-8030 (622-3383-001) POWER SUPPLY for HF-8020 power amp; 90 lbs shipping.
#HF-8030, unused, $1500.00

+ +

PRICE REDUCED



HF-8064 4-CHANNEL HF PRESELECTOR, auto-tuned bandpass filter for HF-8054 receiver & HF-8014. Provides front-end selectivity & overload protection for Rx; improves cross-modulation & out-of-band intermod. Power: 100/115/215/230 V 47-63 Hz. 5.3x19x24, 32 lbs shipping.
#622-3522-203, used, $595.00

100 to 225 MHZ Amp

AM-912/GRC AMPLIFIER-MULTIPLIER plug-in for T-302/TRC transmitter; covers 100-225 MHz FM @ 100+ watts using 4X150A tube. Controls Grid & Plate Tune and Amp Output Coupling. Requires +750 V, 200-350 V screen, and 6.3 V filaments; with schematic. 12x6x14, 24 lbs.
#AM-912, used, $69.50
#AM-915, 225-400 MHz; 4X150A, 4X150G. $85.00

+ +

AM-914/TRC AMPLIFIER-CONVERTER, plug-in for R-417 receiver in 225-400 MHz range. Continuous tuning of RF and oscillator; 30 MHz IF. Modify and use as down-converter ! With tubes 5670, 4/6J4. Requires 150 VDC & 6.3 V . 7.5x6.5x9.5; 15 lbs sh.
#AM-914, USED, $35.00
#AM-1179/GRC, 50 to 100 MHz, used, $39.50
#AM-1177/TRC, 400 to 600 MHz, used, $44.50
#AM-3203A/TRC, 1.35 to 1.9875 GHz, used, $49.50

602-999 MHz Amp

AM-1957 AMPLIFIER-OSCILLATOR, 601.5 to 999.5 MHz plug-in for T-893/GRC-50 transmitter. Utilizes three 7289 tubes as 651-1049.5 MHz oscillator, -50 MHz mixer and 15 watt power amp. Directional coupler detects Reflected Power and provides monitor output for external meter circuit. RF passes through duplexer having identical receive/transmit sections each with two cavities. (Receive signal routed to separate AM-1955 receiver module.) Transmit RF then moves to second directional coupler which detects Reflected Power also with output for external meter. Wavemeter samples output RF for frequency measurement using calibration chart. Cathode current of each 7289 regulated by external 250 VDC, 650 VDC, 800 VDC, 5.7 VAC, 5.5 VAC. Schematic and info included. 8.9x11x16, 36 lbs shipping. #AM-1957, Used, $59.50

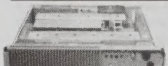
+ +

AM-1955A/GRC AMPLIFER CONVERTER used with R-1148A/GRC-50 receiver for 600-1000 MHz band; 60 MHz IF. Uses 4037A/2C40A tube as oscillator; also 5654, 2/5842. W/ wavemeter & calibrate book. Requires 150 VDC, 6.3 V. 15x9.5x8, 30 lbs sh.
#AM-1955A, $25.00

UHF Preselector

F-1506/G UHF Tunable Band Pass Filter / Preselector covering 225-400 MHz dial tuned. Consists of Lark Engr. FX4000-089 filter with N conn in rackmount package. 5x19x18, 25 lbs sh.
#F-1506, Used, $75.00

RF Amp / Preselector

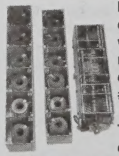


TN-612/G Prepost Selector, consists of RF preselector and broadband power amp. Preselector operates in four bands 1.8-3.6, 3.6-7, 7-14, and 10-24 Mhz. Microprocessor-controlled unit has no front panel controls except ON-OFF and indicators for OV DE, OVL, ATT, BITE, TUNE plus silver-plated coils and 3-gang variable capacitor. Frequency is selected by twelve Kilovac HC-1 vacuum relays and nine mini-coax relays along with motor interface adapters. Relays actuated by driver transistors. RF power amp uses four transistors S15-28, T9-0664 and two MRF-466 as output amplifiers. P/o GRC-215 HF-SSB; no further info. Requires 115/230 VAC 50-60 Hz; 4.5x19x17, 46 lbs. #TN-612, Unused, $250

Broad Band Power Amplifier Assembly covering 1.6 - 24 MHz removed from the TN-612 pre-post selector. Uses S15-28, T9-0664 and 2/MRF-466 transistors. 24 VDC. No further info at this time. 2.3x17.3x4.5, 9 lbs sh. #AMP-612, $79.50

Coils & Variable Capacitor from TN-612 Preselector

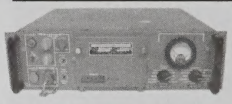
Two silver plated coil boxes each with six coils. The preselector was supposed to cover 2 to 30 mhz in 4 bands. 3 coils for each band. Each coil silver plated wire on epoxy from with ferrite slug is in its own compartment with a glass piston variable capacitor. 13.1x2.2x3.3, 7 lbs sh.
#612-COILS, $20.00



Three section fully shielded variable capacitor 35 - 300 pf per section. Each section is shielded from the others. The isulation material looks like ceramic. Very high quality. 10x2.7x3, 6 lbs sh. #612-CAP, $25.00

Both Coils & Variable Capacitor. #612-KIT, $35.00

GRT-21/22 Transmitter

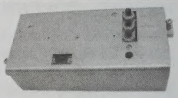


T-1109 Transmitter from AN/GRT-22 Radio Set. Frequency coverage is 225-400 MHz AM in 3500 channels. The crystal controlled transmitter has 10 watts output. Associated amplifier is the 50 watt output AM-6155 listed on page 4 of our catalog. Requires 120/240 VAC. 18x19x5.3, 50 lbs sh., #T-1109, Used, $49.95

T-1108/GRT-21 Transmitter same as above except 116-150 MHz in 680 channels. Associated amp is AM-6154. #T-1108, Used, $50.00

Schematic Pack f/ T-1108/T-1109, #SCH-T-1108, $15.

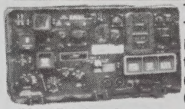
FAA Transmitter



UHF Transmitter FAA We do not know anything about these except that they are exceptionally well built. Please see the pictures on our web site. Has output transistor MRF325 and driver transistor MRF321. Federal stock #5825-00-140-2735. Model AN/GRN-27. Part #917800-1. Radio Navigation. Mfg by Texas Instruments. 5.9x14x4.5, 11 lbs sh. Units are in good physical condition. #FAA-UHF, Untested. $35.

VHF Transmitter similiar to above except uses MRF316, Units are in good physical condition. #FAA-VHF, Untested. $35.00

T-195 Transmitter

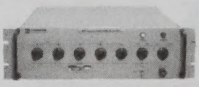


T-195/GRC-19 TRANSMITTER 1.5-20 Mhz AM-CW-FSK in ten bands manual or auto tune. Power output 100 W (1.5-12), 90 W (12-16), 80 W (16-20 MHz). Uses two 4X150D tubes in power amp & 20 other tubes. Requires 22-30 VDC 42 amps input (9 amps "stand-by") for dynamotor supply. LESS METERS. With replacement knobs. Companion to R-392 receiver. 11.5x22x14.5, 135 lbs. #T-195, Used Reparable, $225.
MANUAL for T-195, partial repro, #MM-T-195, $20.00
30" Power Cable w/ connector, #CAB-T-195, $14.00

MD-203 FSK Modulator

MD-203/GR Radio Transmitter Modulator for the T-195/GRC-19 Transmitter. The MD-203 is a link in a complete radio teletypewriter comm. system. The teletypewriter signals developed in Teletypewriter TT-98 are supplied through Junction Box J-668 to the MD-203. The MD-203 is connected to the exciter section of the T-195 to produce shifts in the CW signal. Uses tubes 7/26A6, 1/26A7. Less knobs. 9.1x13.8x7.3, 26 lbs sh. #MD-203, $25.

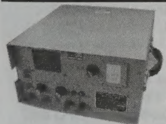
Harris Preselector



RF-551A PRE-POST SELECTOR highly selective bandpass filter for 2-29.999 Mhz range functions as preselector for enhancing receiver signal reception or as post selector for reducing exciter output noise when used with 6 db pad (not supplied). 5-decade freq-control knobs & Hi-Lo Gain switch; N conn. Req. 115/230 VAC 47-420 Hz; 5.3x19x20, 36 lbs.
#RF-551A, Used-nice, $350.00
Manual, partial repro, #MM-RF-551A, $20.00

CALL US AT 419-223-2196 or 227-6573 24 HOUR FAX 419-227-1313

FAA Radios



TRX-103 UHF Solid State 3 channel, crystal controlled, AM Transceiver type FA-9606 covering the military aviation 225-400MHz band. Has built in speaker. 50KHz channel spacing. Transmitter ouput is 3 watt. Antenna impedance 50 ohms. Receiver IF is 21.4MHz. Requires 115VAC 60Hz or 24VDC. Crystals not included. Condition of internal battery AS-IS. 14.1X14.2X7.7, 43 lbs sh. Manual repro included. #TRX-103, Used Reparable, $150.00

TRX-102 VHF AM Transceiver type FA-8979 is similar to above except covers 118-136MHz and requires 120VAC 60Hz or 12VDC. Crystals not included. Condition of internal battery AS-IS. 13.8x13.8x7.9, 38 lbs sh. Manual repro included. #FA-8979, Used Reparable, $160.

Type FA-8960A VHF Synthesized Transceiver is similar to above except has the following: tuning level meter, Meter function switch (AVC Voltage, XMTR Exciter, XMTR Output), Digital display, Keypad, and 6 pin connector for Voice/Tone Cont Cable. 13.5x12.4x6.2, 26 lbs sh. #FA-8960A, Used Reparable, $475.00; Manual is N/A

It is unlawful to operate on these frequencies unless you have a license to do so.

Aircraft Receiver

R-761/ARC-58 Receiver covers 2 to29.999MHz, companion receiver and exciter to T-730. Req. 115 VAC 400 Hz input. 7.8x10.3 x23.5, 55 lb. #R-761, used, $135

SCHEMATIC, #SCH-R-761, $10.00

Control for freq-select; 6 lbs. #C-3141, USED, $20.

****

MODULES from AN/ARC-58 or TRC-75 radio sets. Each 4.8x4.5 x1.5, 2 lbs sh. USED-not tested:

AMPLIFIER DETECTOR, 4x 5899 tubes; p/o R-761, #AM-1523, $17.50

ELECTRONIC CONTROL AMPLIFIER p/o T605/T-730 xmitter, #AM-1525, $15.00 ea

Similar to AM-1523, #AM-1526, $17.50 ea

AMPLIFIER-MIXER for R-761 with ten tubes and slug rack, #AM-1528, $45; Schematic, #SCH-AM-1528, $3

AMPLIFIER OSCILLATOR with Collins mechanical filter P455 Z1, #AM-1529, $28.00

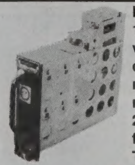
MIXER OSCILLATOR, for R-761; oscillators master 70H13A, interpolation, spectrum generator Mech fil ters F455 Q2 & Q3. #CV-465B $55.00
Schematic for CV-465B, #SCH-CV-465B, $10.00

MIXER OSCILLATOR, #CV-465C, $75.00

BALANCED MODULATOR with mechanical filters F300 Z4 and F300 Z5, etc. #MD-286A $35.

REFERENCE GENERATOR, #SG-179A/URC, $35.00

Sonobuoy Receiver



R-1170/ARR-52A VHF RECEIVER 162.5-173.5 MHz AM, FM and video using 31 crystal-controlled channels. Solid-state sonobuoy receiver consists of five plug-in modules; 26 MHz 1st IF, 5 MHz 2nd IF. Conversion possibilities for 2 meters, VHF weather, satellite TV, etc. (See Oct '74 CQ Mag.) Reguires external control and 18 VDC. 7.5x2.5x10, 9 lbs. #R-1170, Used, $16.95.

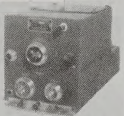
SCHEMATIC, #SCH-R-1170, $5.00 w/ set.

MANUAL, partial repro, #MM-R-1170, $15.00 w/ set.

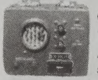
ARN-30D VHF Receiver

R-1021/ARN-30D VHF RECEIVER covers 108 to 126.9 MHz AM in 100 KHz steps (190 channels); originally part of air navigation system. 1st IF 11.7-12.6 Mhz; 2nd 1.7 MHz. Electrically turned crystal turrets with freqency displayed on side panel. Adjustable squelch; 300 ohm audio out. 50 ohm input impedance; BNC connection. Tubes 5718, 5840, 5896, 4/5899, 5902, 6021, 6112. Requires 28 VDC 1.8 A and 260 VDC 85 ma. 5.5x11.4x4.6, 10 lbs. #R-1021, Used, $29.95

ARC-60 Items



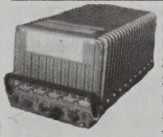
R-508 AIRCRAFT RECEIVER, 118 to 148 MHz AM continuously tunable, but does not have dial; tuned remotely using control box with MC-215 flex spline (not available). 15 MHz IF; binding post & BNC antenna connections on front. Tubes 12A6, 14A7, 14F7, 2/14R7, 9002, 3/9003. Same as R-19; p/o AN/ARC-60 & ARC-type 12. Requires 250 VDC 60 ma & 28 VDC. 6.5x5x11.8, 15lbs. #R-508, Used $20.00



O-423/AR OSCILLATOR-RELAY provides 1 KHz tone for "whistle-thru" tuning of ARC-60. 3.9x5x2, 3 lbs. #O-423, Unused, $15.00

AT-701/ARC-60 UHF Antenna is a quarter-wave, base fed, inverted L-type design 6" vertical x 7" horizontal x 1/4" diameter, 2 lbs sh. #AT-701, Used, $10.

ARC-105 HF Radio



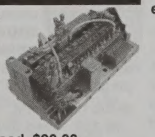
RT-712/ARC-105 HF TRANSCEIVER, pressurized 618T2; modules intechangeable. Covers 2 to 29.999 MHz SSB-AM-CW in 28000 channels. Front has hour meter, C and BNC connections. Separate control needed for freq-selection. Connectors not available; Requires 115VAC 400Hz 3 Phase. 10.5x 11.5x23, 70 lbs. #RT-712, Used, $325.00

500 Khz IF w/USB/LSB Product Detector Module. Four 500 Khz IF amplifiers with 526-9377-00 and 526-9376-00 mechanical filters produce the sideband audio. The AGC was generated by the IF/AM audio module. Also has the balanced modulator for the sideband transmit audio as part of the transceiver function. Power req. IF amp 18 VDC, Mic amp 24 VDC. w/schematic info, power connector. #105-PD, $49.50

500 KHZ IF AUDIO AMPLIFIER, IF and Audio Module from Collins transceiver. Four stage 500Khz IF amplifier w/6 khz collins filter, AGC Detector, Low level audio amplifier. Also has 3 transistor microphone amplifier as part of its function in the transceiver. Power req. IF amp 18 VDC, Mic amp 24 VDC. w/schematic, info, power connector. #105-AA, $32.95

Precision RF Oscillator Module produces 500 Khz and 100 Khz reference signals from a temperature compensated 3 Mhz crystal oscillator. Requirements were 3 Mhz +/- 2 hz, 500 Khz +/- 0.4 hz, 100 Khz +/- 0.4 hz. Operates from 18 VDC. w/schematic, info, power connector. #105-OSC, $29.95

243 MHz Receiver



Transistorized Guard Reciever from modified RT-178/ARC-27 (5821-953-9695) UHF transceiver. One channel in 238 - 248 mhz range. IF's 25.1/3.48 Mhz. Has detector, noise limiter, AVC. 4/2N1745 transistors and 25.1 mhz filter. 8 x 4.5 x 4, 6 lbs sh. No Schematic. #ARC-27, used, $20.00

Collins 618T

COLLINS 618T-2 SSB AIRBORNE TRANSCEIVER, 2-29.999 Mhz SSB-AM-CW in 28000 channels. Power output: 400 watts SSB-PEP 125 W AM-CW; 52 ohm output imped. Sensitivity SSB: 1 uv for 10 db S+N/N. Selectivity SSB: 2.85 Khz, 6 db down; 6.0 Khz 60 db. Audio input: 600 ohms. Uses two 4CX250's in P-A. Switch & meter monitor internal power. Separate control necessary for channel select. Racks & cables not available. Requires 115 V 400 Hz 3 phase 1 KVA & 1 phase 160 VA; also +27 VDC 4.5 amps. W/ manual repro; 7.6x10x22.2, 58 lbs. #618T-2, Used reparable with K9 osc, $495.00

Like above but requires 28 VDC 35 A and 115 V 400 Hz 1 phase 100 VA. #618T-3, Used, $600.00

618T power/contol connector, no cover, #CONN-618T, $40.00

MODULES FROM COLLINS 618T HF TRANSCEIVER, as removed from equipment--not tested:

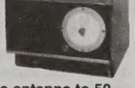
AM AUDIO AMP has mech filter F500 Y60 (526 9378); 2 lbs sh. #546-6053, $40.00

IF TRANSLATOR has LSB-USB filters F500 Z4 (526 9377) & Z5 (526 9376), Mech. filter as used in PRC-47 to modify for LSB operation, #544-9286, $65.00

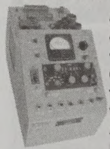
KC- FREQUENCY STABILIZER, has mechanical filter F250 F100 (526 9410) and crystal filter X250KF440 (526 7006); 3 lbs. #618-KC-FRQ, $35.

RF TRANSLATOR with K9 oscillator, 15 lbs. #618-RF-TR, $200.00

618T RF Reference Osc. Module, includes 3 MHz crystal oven which is divided to 500 KHz output, amplified and then divided again to produce 100 KHz output. 4.3x6x2.7, 2 lbs #528-0251-005, used, $20.00

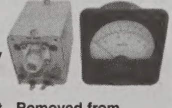


COLLINS 490T-1A (CU-1669A) AUTOMATIC ANTENNA COUPLER for 618T and similar 2-30 MHz transceivers; rated RF input 630 W PEP, 200 W average. Matches 25 ft or longer whip or 25-100 ft long-wire antenna to 50 ohm line. Terminal for wire and "C" coax connection. Has 5-500 pf 10 KV vacuum variable capacitor and variable step-coil. Requires 115 V 400 Hz; 7.6x 10.1x12.6, 24 lbs. #490T-1A, Used not tested, $450.

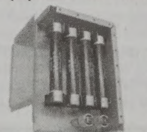


Collins 618T URM-157 Test Set, Consists of TS-1949/URM-157 and cable which connects the TS-1949 to the 618T. The radio set control is part of the TS-1949. Has meter to indicate forward / reflected power 200/2000 watts. Also provides connections for microphone, headset, audio in, and key. Power input connector also provided. Connections for 516H-1, antenna coupler, DC in, AC out are on the test set (Webpage for available connectors/cables). 34 lb. #TS-1949-U, Used $350; #TS-1949-UN, Unused $795.00

TS-1949 only, less control box, 18 lbs #TS-1949-O $125



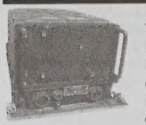
Collins 1000 W 100 W 2 - 30 Mhz directional coupler w/N connectors, meter, and range switch. This is the classic fully shielded detector that Collins used in many pieces of commercial and military equipment Removed from equipment. #DC-COLLINS, $75.00



HF Dummy load 240 watts, 50 ohm. Assembly has 4 Carborundum 50 ohm 60 watt noninductive resistor, 2 75 pf doorknob capacitors. Removed from equipment. #240DL, $30.00

PLACE YOUR ORDER OVER THE WEB AT FAIRRADIO.COM

ARC-51BX UHF Tx-Rx



RT-742/ARC-51BX UHF Aircraft Transceiver, 225-399.99 MHz AM in 3500 available channels, 50 KHz spacing; also has guard channel. Output 16 watts min. RF impedance 52 ohm input & output. Audio and mic impedance 150 ohms. Doesn't include ID-1003 SWR indicator; separate control box necessary for function & freq-selection. W/ tubes 4/ 7077 and 4/ 7544; requires 27 VDC 13 amps. 7x9.5x15.1; 35 lbs. #RT-742, Used, $150.00

ARC-109 Transceiver

RT-749/ARC-109 UHF AIRCRAFT TRANSCEIVER, solid-state Collins unit operates on 225-399.95 MHz AM, DSB and A3 phone @ 30 watt min. 3500 available channels in 50 KHz intervals plus 243 MHz guard channel. Uses 4631 tube in P-A; 150 ohm audio/ mic impedance. C-6364 control necessary for channel select; cables & racks not available. Replaced ARC-27-34-51-52. Requires 115 V 400 Hz 3 phase. 6.8x9x16, 29 lbs. #RT-749, Used reparable, $350.00

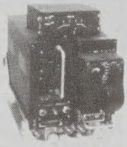
SCHEMATICS f/RT-749, repro, #SCH-RT-749, $12.00

CONTROL, used, #C-6364, $45.00 w/set purchase.

FM Transceiver

MAGNAVOX FM-622 (RT823/ ARC-131) Airborne Transceiver, covers 30-76 Mhz FM in 920 channels, 50 Khz steps. Output 1 watt in LO; 18 W max HI @ 29 VDC RT has Squelch Disable & Adjust, Test switch. Meter monitors +24 V-+16 V-AGC-RF FWD- RF REFL-OFF. Control box provides channel select, Volume, Squelch, OFF-TR-RE-TRAN HOME switch. Has some modules common to RT-524/VRC-12. Requires 24-29 VDC 4 amp max. Rack & cables are N/A. 7.8x5.9x15.6, 31 lb #FM-622, Used w/control box, $250.00

Collins VHF Tx-Rx Set



AN/ARC-73 AIRCRAFT RADIO SET designed by Collins; consists of T-879 (17L-7A) transmitter, R-1123A (51X2B) receiver, C-4074 (614U) control and MT-2699 rack. T-879 covers 116 to 149.95 MHz AM in 50 KHz steps (680 channels) with 25 watt output to 133.95 MHz and 20 W min. above. Sidetone level 100 MW into 500 ohms; mic impedance 100 ohms. R-1173A covers 108 to 151.95 MHz in 50 KHz steps (720 channels). Sensitivity 3 uv; audio output 500 ohms. Both have antenna input impedance of 52 ohms and require 27 VDC (7.3 amp max transmit) power. Both utilize tubes and transistors. C-4074 control sets frequency on mechanical counter and has Volume, Squelch, and On-Off functions. Mating connector not available. MT-2699 rack is unused but is missing connectors. Operator's manual and schematics included; 9.5x8.5x16, 40 lbs. #ARC-73, used, $189.50

TRANSMITTER only; 20 lbs #T-879, Used, $79.50

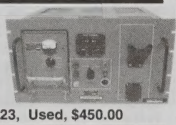
RECEIVER only; 19 lbs sh. #R-1123A, Used, $85.00

CONTROL BOX for frequency select, volume control, etc; w/ set purchase. #C-4074, Used, $20.00

ARC-54 Transceiver

RT-348/ARC-54 VHF Aircraft Radio Set, FM unit covers 30-69.95MHz in 800 channels with 50Hz spacing, 10W, X-mode capable, 27.5VDC at 7 Amps, Manufactured by Collins. 15x5x7.7, 25 lbs sh. #RT-348, Used, $175.00

VHF Transceiver



RT-723A/GR VHF Transceiver covering 118 to 149.95MHz in 50KHz steps. Rackmount unit comes with Wilcox 807 transceiver and control box. Requires 115VAC 60Hz. 17.8x19x10.5, 77 lbs sh. #RT-723, Used, $450.00

Test Panel

Test Panel for Wilcox 807 VHF transceiver with control box 97733-100, ITT Cannon connector for rear of Wilcox 807, test points for the following: Data Link input, O dbm input, mike input, data link output, receiver output, sidetone output, detector meter, detector input, scope output. Mike, sidetone, and receiver audio jacks. External squelch; on/off, control, disable. Audio on/off. PTT disable. Overall dim., 15.8x22.2x8.8, 32 lbs sh. #807-TP, Used, $115.

Test cable with male/female connectors to extend Wilcox 807 radio from mount. Length approx 3 ft. #807-CABLE, $30.00

Control box for Wilcox 807. #97733-100, $50.00

Rack Cabinet only from above less the front panel, control box and cables. Has a 7" height opening and an allowance of 14" deep. Has louvered sides. The top of the cabinet opens for easy access. Has 2"Hx20"W hole along the base of the rear of the cabinet. 28 lbs. #807-RACK, Used, $35.00

GRC/VRC Equipment

RT-68/GRC TRANSCEIVER, 38-54.9 MHz FM continuously tunable or 100 KHz-step channels. Receives and transmits both voice and 1600 Hz ringing FM; range 10-15 miles. Receiver circuit has variable 1st IF 4.45-5.45 MHz and fixed 1.4 MHz 2nd IF; also squelch and 600 ohm audio output. Transmitter uses crystal-controlled oscillator and oscillator power amp; power output 2 watts (LO) or 15 W (HI). Also meter to monitor xmiter filaments and 90 V input. Requires PP-109 or -112 power supply. Tubes 4/1U4, 2E24, 2/1A3, 2/1L4, 4/1R5, 2/1AE4, 1S5, 4/3Q4, 3A4, 3/3A5, 2/3B4, 6AK5. 9x13x11.3, 42 lbs sh. #RT-68, USED, $115.00
TRANSCEIVER, 27-39MHz, #RT-67, USED, $99.50
TRANSCEIVER, 20-28MHz, #RT-66, USED, $89.50

PP-112/GRC 24 VDC SUPPLY for RT-66-67-68 transceivers; provides all voltages from 24 VDC 6.5 amp input. Case may have casting chip(s); 7.3x9 x13, 39 lbs sh. #PP-112, USED, $27.50.

PP-109 Supply, 12 VDC 12 A input. #PP-109, Used, $35

#CX-1211 INTERCONNECT CABLE, RT: PP units, $12

R-108/GRC RECEIVER , 20 to 28 MHz-FM continuously tunable with variable squelch; 4.3 MHz I.F. Audio output: 600 ohms. RF input: 50 ohms. With tubes 3/1U4, 2/1L4,1A3, 2/3A4, 1S5, 2/3Q4, 2/6AK5 & 0B2. Requires 135 VDC @ 70 MA. and 6.3 VDC 2 amps. 7.5x9x132; 32 lbs shipping. #R-108, GOV'T-RECONDITIONED, $55.00

R-109 RECEIVER, same as R-108 except 27-39 MHz. #R-109, Used, $45.00

USB Receiver-Exciter

RT-662/GRC-106 TRANSCEIVER, 2 to 29.999 Mhz USB-AM-CW-FSK; tunes using 5-decade mechanical switches to 1 KHz steps + vernier. Exciter output 100 MW. Controls: Service Selector, PA Load, Squelch, Noise Blanker, BFO and audio functions. LESS Signal Level meter. Requires 24 VDC 10 amp; 7x18x13, 56 lb sh.
#RT-662-UR, Used Repar. not tested/LESS meter, $275
#RT-662-CH, "Checked" w/ meter (not original), $450

RT-834/GRC-106A, similar to RT-662 above but 2-29.9999 MHz, 0.1 KHz increments. Used:
#RT-834-UR, Reparable no meter, $300.00
#RT-834-CH, Checked with sub meter, $495.00

GRC-106 MODULES for RT-662 and RT-834, most modules available except 1A3 Freq-Standard removed from "used" radios. 2 lbs sh.
Price: UNTESTED, $20 ea. Add $20 per module for "CHECKED" modules. #MOD-(specify module #)-(specify RT #)- (untested "UNT" checked "CH")

AM-3349/GRC-106 POWER AMP for RT-662/834; amplifies 100 MW RT output to 200 W AM or 400 W PEP. Uses two 4CX350FJ tubes. Requires 28 VDC 1 KW max; 77 lb
#AM-3349-UR, Used Reparable w/ original meters,$750
#AM-3349-AI, Used As-Is, less meters, $400.

Manual, partial repro GRC-106/106A, #MM-GRC-106,$40
Operator's Manual, GRC-106/106A, #OM-GRC-106, $12
HANDSET, #H-33, used-checked, $17.50
MIC, #M-29B, used, $12. Headset, #H-227, $17.95
MOUNT & SIDE PLATES, 25 lb. #MT-3140, Used, $35.
INTERCONNECT CABLE, #CX-10099, used, $20.00
ANTENNA CABLE, 4 lbs. #CX-10171, Used, $22.00
Suppressor see pg 26 for descript. #MX-7777B, $22.00
TELETYPEWRITER, 100 lbs, #UGC-74, Used, $85

MD-522A/GRC MODEM, modulator-demodulator for GRC-106/ 106A HF radios and teletypewriters TT-4A, TT-76, TT-98, UGC-4 or UGC-74. Permits transception of voice, narrow (NSK) or freq (FSK) shift keying, freq-diversity and NSK +voice. One-way or duplex Send-Receive. Internal loop voltage 120 VDC 60 ma max. Has 2BP1 CRT, U-77 mic & 600 ohm audio connections. With original volt-current meter for customer to install. Req. 24 VDC 1.4 A; 7x18x13, 41 lb. #MD-522, Used, $165.00
Manual repro, #MM-MD-522, $35.00
Power Connector, #PC-MD-522, $10.00

GRC-109 Supply

PP-2684/GRC-109 POWER SUPPLY provides voltages for RT-3/T-784 and R-1004/RR-2 from 75-260 VAC 40-400 Hz or 6 VDC 13 amp input. Meter monitors AC input; connections for RX and Tx. 10x8.5x5.5, 28 lbs sh. #PP-2684, Used, $29.95

PP-2684A, Similar to above except larger case with snap closures. #PP-2684A, Used, $32.00

Manual for GRC-109, partial repro, #MM-GRC-109,$20

VOLTAGE REGULATOR, for use with G-43 generator and R-1004; 6 ft cord with PL-244 plug: 4 lbs sh. #CN-690, Used, $19.95

GRC Audio Amp

AM-65/GRC AUDIO AMPLIFIER, 3-channel audio for RT-70 transceiver; also works as power supply when PP-281 or -282 modular supply is installed inside AM-65. 4.4 x 8 x 13, 17 lbs sh. #AM-65, Used, $35.00

Dogbone Cable RT-70/AM65. #CX-1213, Unused, $22.

EMAIL US YOUR INQUIRIES AT FAIRADIO@WCOIL.COM

R-442/VRC Receiver

R-442/VRC RECEIVER 30-75.95MHZ FM RECEIVER. 920 50 KHZ CHANNELS. Has noise and tone operated squelch. Normally used with antenna system AB-15, MS 116, 117, 118. Power connections through MT-1898 mount and DC power cable, CX-4720 which are included. 13.5, x 5.8 x 8.9, 31 lb sh. #R-442, Used Reparable $300.00

TRC-68 Transceiver

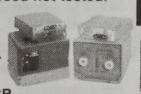
RT-441B/TRC-68 Transceiver 225-400 Mhz AM. 1960's vintage transceiver, basically same as RT-323/VRC-24, rated 16 watts minimum 225 to 400 Mhz. As pictured, no case, no dynamotor/power supply. Voltages required 26.4vdc 125 vdc 300 vdc. Utilizes the following tubes. 7/5670 10/5654 6442 4x150d 7554 6/6j4 6/5670 4/ 5763. 15.2 x 9.5 x10.2, 47 lb sh.
#RT-441, Excellent condition $200.00
Manual Repro, #MM-TRC-68, $35.00
#MT-1436 Terminal Box less cover. Unused, $20.00

2-12 MHz USB 100 Watt

RT-671/PRC-47 HF TRANSCEIVER, 2 to 11.999 MHz USB (voice and CW+800 Hz) in 1 KHz steps. Output 100 watts PEP (Hi) or 20 W (Lo). FSK possible with accessory converter (not available). Transistorized except for PL-177WA tube in power amp and 5907, 7761, and 7905. Has 5-place mechanical digital tuning, P-A Load and Tune controls, and XMTR Output Meter. Designed for field or vehicular use; operates from either 24 VDC 20 amps or 115V 400 Hz. 7x21.3x13.5, 45 lbs. #RT-671-UR, Used, $150.00
#RT-671-CH, Used Checked, $295.00

MANUAL for PRC-47, partial repro, #MM-PRC-47, $25.
LONG-WIRE ANTENNA, 3 lbs., #AS-1321, $15.00
HANDSET, #H-33, used-checked, $17.50
"Y" CABLE for H-233 to RT, #CX-8396, $8.00
50 ft AC Cable, #CX-8393, $15.00
Battery Cable, #CX-8395, $8.00
BACKPACK FRAME only w/ harness, #PRC-47-BF $12.50
SILVER CELL BATTERY, 24 VDC 25 AH for PRC-41/47, 15 lbs sh. #BB-451, UNUSED, $225.00
ALUMINUM TRANSIT CASE, 65 lb #CY-3700, $28.00
TUBE USED STT, #PL-177WA, $25.00

MODULES from PRC-47 transceiver. Used not tested:



AUDIO AMP has mic, sidetone, vox & compressor circuits of TX; AGC & audio for Rx. Requires 20 & 24 VDC. 4.3x4.3x2.8, 2 lbs. #AM-3506, $15.00

AMPLIFIER MODULATOR contains LSB 500 KHz mech filter F500-Z5 (#526-9376) plus balanced modulator and product detector. Requires 20 VDC; 4.3x4.5x1.3, 1 lb. #AM-3507, $35.00 Connector set. #AM-3507-CON, $6.00

CONTROL OSCILLATOR, 3 lbs. #C-4311, $25.00

SIGNAL DATA TRANSLATOR with tubes 5907, 7761, 7905; 5 lbs sh. #CV-1377, $50.00

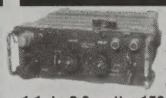
RF OSCILLATOR contains 3 MHz crystal in oven; produces 500 and 100 KHz outputs. Requires 20 VDC; 4.3x4.5x1.3, 1 lb sh. #O-1032, $20.00

POWER SUPPLY, 16 lbs sh., #PP-3518, $25.00

Eastern Block Radio

The Russian Tube Type Radio R-105M was intended for use by infantry units. Operating in one continuous band on 36-46.1mc, with an intended channel spacing of 25 or 50kc. RF power output is rated at 1 watt, FM. Power is derived from two internal Nicad batteries. Durable bakelite housing. Removeable front and back covers. With accessories. 12.3x5.5x11.7, 23 lbs. #R-105M, Used, $250.

PRC-25/77 Backpack Radio



RT-505B/PRC-25 TRANSISTORIZED BACKPACK TRANSCEIVER, 30-75.95 MHz FM in bands 30-52.95 MHz (Lo) and 53-75.95 MHz (Hi) with 50 KHz spacing. Output: 1.1 to 2.0 watts; 150 Hz squelch. Transistorized except 2DF4 tube in power amp. Requires 3 VDC 400 ma and 15VDC 1.4 amp supplied by BA-4386 battery. RT-505B has modified A25 audio module for broadband use with C-7673/PCC-1 and CU-2194 diplexer. 4x11x14, 18 lbs. #RT-505B, Used, $300.00
RT-841/PRC-77, Similar to above, #RT-841, $550.00

Manual for PRC-25, partial repro. #MM-PRC-25, $20.00
Manual for PRC-77, partial repro. #MM-PRC-77, $20.00
Backpack Harness. #ST-138, Used Excellent, $35.00
RIBBON ANTENNA, #AT-892, used, WRITE
RUBBER BASE for AT-271, used, #AB-591, $12.00
BATTERY f/ PRC-25-77, "weak" #BA-4386, 3/$5.00
BATTERY,1995 X-date (no UPS or air), #BB-5598, $4.00
ACCESSORY BAG, used, #CW-503, $7.00
HANDSET or = for PRC-77/25, #H-250, Used, $18.00
Original Op's Manual f/ VRC-53 (PRC-77 & AM-2060) #MM-VRC-53, $20.00

PRC-25 Accessory Kit consisting of H-250 handset, AT-892 ribbon antenna, AT-271 telescoping antenna, AB-591 rubber base for AT-271, and CW-503 bag which holds all the before mentioned accessories. 6lbs sh. #PRC-25-KIT, Used, $69.50

AM-2060 Audio Amplifier / Power Supply with interconnect cable CX-4655. PRC-25 or PRC-77 transceivers sets on and plugs into AM-2060. Unit has a speaker for the transceiver, remote antenna tuning for the AS-1729 antenna and allows 24VDC vehicle electrical to power transceiver. Comes MT-1029 mount. 11.8x15x6.7, 23 lbs sh. #AM-2060, Used, $360.00

AN/GRM-55 TEST SET, used to check test points in modules of RT-505/PRC-25 transceiver and to isolate circuit problems. (Indirect tests only of modules A2, A12-13, A19-20.) Includes TS-1755 test unit, MX-4622 probe, and CG-409 BNC cable. Requires 12.5 VDC 1 W per 5 sec test. 5.5x7x8, 10 lbs sh. #GRM-55, Used, $45.00
As above except w/ test cable CX-8593, $64.50

6 Meter Diplexer

CU-2194/URC DIPLEXER, passive two-port notch filter and combiner network; allows simultaneous use of two transmitters, receivers, or transceiver on a common antenna provided that operating frequencies are slightly offset. Usable over 30-76 MHz FM for use with PRC-25-77 & VRC-12 transceivers; will work with commercial 6-meter equip. Has NULL METER, TUNE controls, Fine-Coarse-Monitor MODE Switch and RT1-RT2 BNC connections. Unit may function as man-portable relay terminal. Maximum RF power to each channel: 65 watts cont. Operational isolation: 45 DB min @ 2 MHz separation. Insertion loss: 2 DB max; VSWR 2.0:1 max. 4x11x7, 10 lbs. #CU-2194, Unused, $69.50; #MM-CU-2194, Original Manual, $10

PRC-41 Manpack

RT-695/PRC-41 UHF MANPACK UHF TRANSCEIVER, 225 to 400 MHz AM in 100 KHz steps counter; output at least 3 watts over range. Also has guard channel, Volume, Squelch, and U-77 connection for H-33 handset. Solid-state execept for tubes 6442, 4/7077, and 4/7544. Requires 24 VDC 3 amps; 14x11.3x4.5, 22 lb. #RT-695, Used, $149.50
Used Checked, #RT-695-CH, $295.00
Manual for PRC-41, partial repro, #MM-PRC-41, $20.00
HANDSET, #H-33, used-checked, $17.50
VEHICLE MOUNT for PP-3700, 4lb., #MT-2977, $9.00

PRR-9/PRT-4 Radios

GOV'T-RECONDITIONED each single channel with crystal for 51 Mhz FM: PRR-9 RECEIVER with earphone, antenna, & operator manual. Requires 5 V 25 ma battery power; 7x3.5x1.5, 3 lb. #PRR-9-GR, $40.00

AN/PRR-9 (XE-9) SET, updated PRR-9 with "squelch"; requires 3 VDC input from BA-4534 battery (N/A). With AS-1998 ant, earphone, lanyard & op's book; 6 lbs. #PRR-9-UN, Unused, $89.50

Manual repro for PRR-9/PRT-4A, #MM-PRR-9, $15.00

Horn speaker for PRR-9. #PRR-9-HO, Unused, $5

AN/PRT-4 w/ antenna & battery box, Used less crystal, #PRT-4, $20.00

AN/PRT-4 "AS-IS", less crystal, antenna, & battery box; for parts or experiment, #PRT-4-AI $8.

CX-11991 Battery ext. cable f/ PRT4. Used, $15

PRC-75 Radio

RT-976A/PRC-75 UHF TRANSCEIVER, rugged handheld ground-to-air tactical synthesized radio covers 225 to 399.95 MHz AM-CW in 50 KHz steps (3500 channels). Power output >1 watt. Has three thumb operated dials to set frequency; design frequency accuracy 1 part / 100000. Also has 1000 Hz audio beacon-DF tone. RF input 50 ohms; audio output 600 ohms. Requires 18-30 VDC from battery pack (not supplied); no accessories; 1.6x4.3 x8, 6 lbs. Look nice, complete but not working. #RT-976A, Not reparable "As-Is, $75.00

RIBBON ANTENNA, fastens to RT-976/PRC-75 225-400 MHz handheld transceiver; 14.6"L. snap fasteners. #AS-2447, NEW, $10.00

ANTENNA ADAPTER, allows for BNC coax antenna connection. #UG-1884, New, $9.95

SEM-52 Handheld

German-made unit can operate on six preset channels (2 supplied) in 47-56.975 MHz FM range @ 300 MW; 25 KHz spacing. Has Off-On-Squelch (AUS-EIN-RSP), Volume & Channel (KANAL) select. Requires six AA-batteries. Includes RT, 35" ribbon antenna w/ flex base, "web" headset-mic and carrying bag. May not comply with FCC regulations. 7.1"Hx3.4"Wx1.5"D, 4 lbs sh. #SEM-52, Used-clean not-tested, $125.00

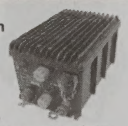
PRC-6 Handheld

RT-196/PRC-6 FM TRANSCEIVER, Israeli 1950's vintage single-channel crystal-controlled in 47 to 55.4 MHz range. Output good to about 1 mile depending on terrain and weather conditions. Handheld unit has push-to-talk switch, Volume Control, ribbon antenna, carrying strap and connection for H-33 handset. Uses CR-23 crystal (not included). With tubes 6/ 5678, 3B4, 3/5672, 2/5676 and 2G21. Requires 1.5, 45 and 90 VDC usually supplied by BA-270 battery (not available). 15x5x4.5, 6 lbs, #PRC-6, Used,$99.50

Original Manual for PRC-6, #MM-PRC-6, $10.00

Crystals for PRC-6, specify 1st, 2nd and 3rd choices of desired working freq. #PRC-6-CR-(freq.), $10.00 ea

PRC-41 Power Amp



PRC-41 UHF Power Amp AM-6669 RF Power Amplifier, designed for use with PRC-41 transceiver, but usable with other 225-400MHz xmitters such as PRC-66, ARC-45, etc. Power output: 10 watts from 2-3 W input; "N" connections Solid-state; 24 VDC required. 5.3x6x9.8, 10 lbs sh. #AM-6669, Used Reparable, $250

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GRC-213 Amp / Supply

AM-7152/GRC-213 Amplifier / Power Supply / Squelch unit. The unit increases audio output and provides squelch circuitry for the AN/PRC-104, which the transceiver does not itself incorporate. It also provides DC power for the PRC-104. The AM-7152 may be used with the RT-1209/PRC-104 to provide audio and squelch without the entire GRC-213 set, or with any other HF/SSB transceiver that does not have squelch capability of its own such as the AN/PRC-74 or AN/PRC-47 sets. Requires 24VDC. 10x12.5x3.5, 14 lbs sh. #AM-7152, Used reparable, $235.00

Military Batteries

BA-5598 LITHIUM BATTERY for RT841/ PRC-77/25 radio; output 12.5 VDC. Two BA's fit RT battery box. Has discharge switch to make non-reactive after final use; 1995 expire date. Class 9 hazardous item; USPS Shipping ONLY. 3.5x4.8x2.1, 2 lbs sh. #BA-5598, Unused, $4.00 ea; 2/$6.50; 24/$50.00

Rechargeable Nickel Cadium Battery for PRC-68/68B/ 126/128 radios. 15 Volts 0.80 AH at 0.16 A. Date Code: 11/89. 1.5 x 4.3 x 4, 3 lbs. #406870-1, Unused, $32.50

Military Nickel-Cadium Battery Pack, four D-cell batteries in plastic pack produces 4.8 V 3.2 amp-Hr; 3/80 date code. 3.5x5.5x1.5, 3 lbs. #4D2704, 5 for $10.00

BA-48 Battery for GRC-9 Receiver section. +90V & 1.5V. Date code is 0486 but still check good. No stains. 8 lbs sh. #BA-48, $5.00

BB-490 Battery/Charger

Lead Acid Battery Pack with Charger, consists of two BB-490 military batteries each rated 24VDC (2x12 VDC) 1.8 Amp-Hrs @ 0.35 amps; AM5-H6 charger fits on top of BB-490 or similar batteries and shows "charging" and "ready" on LED indicators. MPS-CH2 charger power supply output 16VDC 1.5 A from 115V 60 Hz input. BB-490 used in PRC-104, etc. radios; 4.3 x 5 x 2.5. Kit 9 lbs sh. #BB-490, New, $19.95; 3 for $50.00

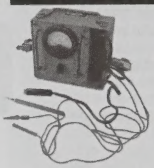
GRC/PRC Battery Test

AN/PSM-13 BATTERY TEST SET; checks GRC and PRC-type battery packs BA-270, -279, -376, -377, -4386/ 398/ PRC-25, -399, and -505. Meter indicates BAD-GOOD (FS=1 MA). With adapters U-240, -241, -314, -315, -347, -410 & canvas case. 7 lbs. #PSM-13, Used excellent, $24.95

Military Battery Tester

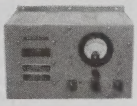
TS-183 Battery Tester. Checks a large number of different military batteries for radios such as PRC-6, PRC-10, PRC-25, BC-620/659, GRC-9, and many many more. For a complete listing of the batteries see our website at www.fairradio.com/ts-183.htm. 10.2x15.3x7.4, 18 lbs sh. #TS-183-U, Used, $30.00 #TS-183-GR, Gov't Recon., $49.95

ARC-34 Test Set



AN/URM-76A Radio Test Set for ARC-34 radio can be used as a DC voltmeter with the following DC voltage ranges: 1.5, 5, 15, 50, 150, 500. Uses 3.5 inch 50 micro amp DC meter. Case containing meter, 1% precision resistors, 20 position test switch, probes, aluminum case with cover. The unit can be easily modified for other test uses. 4.3x8x7.5, 8 lbs sh. #URM-76, Used good condition w/ schematic, $18.95

600W Power Meter

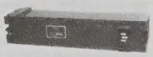


ME-165/G STANDING WAVE-RATIO POWER METER, designed for use with T-368 400 W transmitter; uses 12/ 600 ohm 50 W non-inductive resistors in parallel to provide 52 ohm 600 W load with SWR of 1.1:1 or less upto 30 MHz. Has 0-600 Watt meter, function switch Power-Adjust-SWR-Operate, & N connections. Flanged on back for wall mount. 1.5x9.8x9.8, 20 lbs. #ME-165, Gov't-Recon, $125.00 Manual repro, #MM-ME-165, $8.50

Noise Reduction Unit

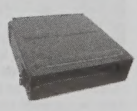
JPS Communications NRU 500 Noise Reduction Unit originally designed to improve the signal to noise ratio of HF communications. The unit removes broadband noise, repetitive impulse noise, tones, hetrodynes, and receiver birdies. The unit can be used to process any audio speech signals. Output impedance 600 ohms. Controls on front panel, power; Noise reduction-Max-med-min; bypass on-off; signal LED; in and out level adjust(scdvr); squelch; speaker; phones; monitor level. Requires DB-9 M and F, not included. Requires 115/230V. With manual repro. 8 lbs sh. #NRU-500, Units are in excellent condition, $325.00

Battery Boxes

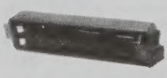


CY-7541/PRC-104 BATTERY BOX, plastic box clips onto PRC-104 backpack radio set and will hold 16 silver-zinc (or =) batteries that provide 20-32 VDC. Side unscrews to insert batteries; 3.8x12.5x2.6, 4 lbs. #CY-7541, unused, $25.00

CY-6327A battery box for PRC-66 backpack transceiver. 2.6x10.5x5, 3 lbs. #CY-6327A, unused, $14.95



CY-744 Battery Box for the PRC-10 backpack radio. 9.4x9.7x2.5, 4 lbs sh., #CY-744-U, Used, $29.50 #CY-744-GR, Gov. Recon., $45.00



AA-BATTERY BOX for Trimble Navigation Trimpack GPS receiver. Clips onto & allows operation of GPS from 8 - AA batteries (not included). 1.6x 6.5x1.5; 1 lb. #GPS-13828-00, NEW, $22.00

Vintage Connectors

"Other Vintage Connectors"

PL-59		BC-191 / 375	$12
PL-61		BC-191 / 375	$18
PL-64		BC-191 / 375	$18
PL-134		RU-18	$15
PL-135		RU-18	$15
PL-164	2 f	SCR-522	$12
PL-167	4 f	SCR-522	$12
PL-169	12 f	SCR-522	$12
PL-171	6 f	SCR-522	$12
PL-172	2 f	SCR-522	$12

++

Three pin connector pair. MS3114E8-3S chassis male and MS3116P8-3P cable female connector pair for audio or low current voltage use. Wire can be easily soldered to the gold plated pins. These connectors lock together with a half turn cam action. They will not come apart from vibration. Excellent for use in vehicles and high vibration applications. Removed from unused equipment. #3PIN-PR, $15.00 per set

GRC/VRC male connectors, specify type & equipment used. #CON-(equip)-(strain="st" crimp="ct") Used-cut-offs: Strain type, $7.50 each; Crimp type, $3.50

Audio Connectors: #U-77, $4.00 #U-229, $5.00

Radio Cables

CX-1209/VRC Power cable for the RT-70 Transceiver when used with the CY-590 battery box. Unused, $17.

CX-4720 VRC DC Cable, 8 feet. $12.00

CX-4721 Extension Cable for DC power 5ft. Unused,$14

CX-4722 VRC Control Cable, 5 feet, $10.00

CX-4723 VRC Control Cable, 4 foot, $10.00

CX-7867 AUDIO CABLE, 25' U-229 /-228, $10.00

CX-11016 2/19 pin male connectors 6 ft. Unused, $10.

CX-12991 KY-57 to PRC-77 CRYPTO cable NSN 5995-01-058-2513. Used, $12.00

CX-13089 Vehicular power cable for use with MX-7777 or vehicles with 3 pin power sockets. 5 ft 4 conductor #14. Unused, $10.00

Vehicle power socket 3 pin female to mate with CX-13089 cable. #CONN-13089, Unused, $12.00

Vehicular power cable for use with MX-7777 or vehicles with 3 pin power sockets. 5995-01-119-9271 4 conductor #14 12ft. Same connectors and pinout as CX-13089. #CBL-13089-2, Unused, $14.00

CX-13134/U DC power cable 3 pin connector fits MX7777, Crown CC229935-2P, and 4 pin PTo6E-8-4S. Unused, $12.00

CX-13143 6 Ft DC power Cable for the AM-4979 and AM-6747 amplified speakers. Unused, $12.00

CX-13300/VRC Audio cable 2 ft. Used, $15.00

Crypto Cable RT-1209 PRC-104 to KY-99. 2 feet. #CBL-104, Used, $17.00

SM-D-915890 Battery back up cable for UGC-74 MS3116E-12-3S, other end fits the batteries used with PRC-25/77. Unused, $15.00

30" long two conductor 8 gauge cable with a standard GRC 4 pin female connector for T-195, GRC-106, etc. on one end going to two bare wires on the other. The 4 pin connector is a commonly used on many GRC equipment for power in. 2 lbs sh. Used, #GRC-CBL-30, $14

Adapter, 33" cable with a U-77 audio connector on one end and two U-79 connectors (mates to U-77) mounted on a panel box on the other end. 3 lbs. #J-654, Used, $12

Vehicular DC power splitter. One male connector and two female connectors. #CBL-VEH, Unused, $25.00

MANY ITEMS NOT LISTED - TELL US YOUR NEEDS

ARC Type Connectors

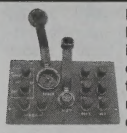
Hard to find ARC connectors for the WW2 Command Sets and later ARC Type 12 Radio Sets. Some of these connectors can be used as is. Some need to have guides filed off. Much information is in the Tauson book, "A Users Guide to Aircraft Radio Corporation Receivers." Also see the ARC connector catalog reproduction. Connectors are unused unless marked Used. "M" designates Male and "F" female.

ARC #	pins	m/f	Works with	Price
16743	12	f	CV431	$15
12341	19	f	C-2275 R-836 R1021 C3436	$15
14320	19	f	C25 Control	$12
12370	2	f	TYPE 12 15 Power	$10
12427	2	m	Chassis Type 12 Rec 15 Rack	$10
12426	3	m	Loop Antenna Connector R836	$10
14052	4	f	T11 13 Power	$15
12337	4	f		$10
16104	4	f		$12
12338	8	f	15 & Command Racks w/ Mod.	$15
15912	8	f	Modulator Command Rack	$15
14050	8	f	T11,13 Mod f/ Command Racks	$15
12097	8	m	Chassis type	$10
PL-151	6	f	Modulator and Receiver Rack	$15
PL-153	18	f	Modulator tx Control Boxes	$15
			C38 MD-7	

A User's Guide to ARC Corp Receivers - by M. Tauson; ARC-5, ARC-type 12 etc, #BK-USER5, $10

ARC Connector Catalog reproduction, #CAT-ARC, $5.00 each

Terminal Panel



Military Terminal Panel with ten heavy duty push terminals with insulation and 5 pin military audio connector U-183/U that mates with the U-229 as used on many military radios. Also has 4 pin male power connector MW20M(M)A00 M55181/2-01. The two connectors have rubber protective covers to resist moisture and dirt. 1.9x6.6x4, 3 lbs. #TP-10, Removed from unused equipment. $14.95

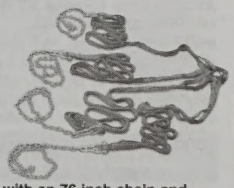
Canvas Bags & Covers

BAGS & COVERS may be used or unused. May have minor wear, tears or discolor:

SHOULDER BAGS with adjustable straps; USED:
#BG-175, 10x8x10.5, $12.00
#CW-189, 10x9x10, $10.00

GRC/VRC EQUIPMENT COVER
#CW-140 for GRC-9, Used, $10.00
#CW-329 for GRC-3--8, Unused, $14.00

ANTENNA ROLL BAGS f/ MS-116 etc mast sections, #CW-206-U, Used, $7.; #CW-206-UN, Unused, $15. #BG-174, Used, $15.00

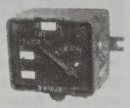


Cargo Sling-Heavy Duty Tow Straps. This item is a 15,000 pound cargo sling and consists of four sections, each is constructed of four 15 feet seatbelt type OD nylon straps which are looped on one end with an 76 inch chain and catch arrangement on the other. The loop ends are all joined together by a large loop of webbing. This loop can be removed to seperate the four individual straps for use as tow straps or whatever. #CS15K-SLING, 105 lbs sh. Unused, $69.50

Single strap from above w/ chain and catch, #CS-STRAP, 25 lbs sh. $25.00

Control Boxes

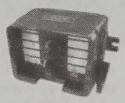
C-375 Control box for radio sets GRC-3--8 or VRC-8--10. Unit is a remote junction point and switching unit for the control and audio lines to two sets. 3.2 x 6.8 x 7, 6lb, #C-375, Unused, $22.00



C-2298/VRC Intercommunications Control used in RT-524/VRC installations with AM-1780 amp; monitors three radios A-B-C. Volume control and two connections for U-229, 5.8x4.5x3.3, 4 lbs. #C-2298-U, Used, $22.00

C-2999 Control Box for the VRC-12 (RT-246 or RT-524) radio system. #C-2299, Used with used knobs, $25.00

VRC Control Box - similar to C-2298. 3.5x6x4.5, 5 lbs. #C-10456, Used, $35.00



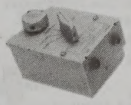
C-2742 VRC Remote Control Box works with the RT-246. 3.3x6x4, 4 lbs. #C-2742, Used, $25.00

LOCAL CONTROL p/o GRA-6, #C-434, Used, $29.00
CONTROL for duplex GRC-3--8; #C-435, Used,$19.

C-87/ART-13 Control Box for ART-13 transmitter. Has 11-position CHANNEL selector, OFF-VOICE-CW-MCW select, PTT button and IC jack. 3.5x6.3 x3.3, 3 lbs. #C-87, UNUSED, $20.00

SB-327/ARC CHANNEL SELECTOR 24-51.9 MHz FM in 100 KHz steps on 3-digit counter; used with RT-294/ARC-44 Tx-Rx. 3x5.8 x4.5, 3 lbs sh. #SB-327, used, $30.00

SWITCH BOX, #SA-474, $10.00

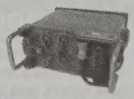


BC-1366 JACK BOX, switch "Comp-Laison-Command-Inter-Call", Increase Output pot, 2 phone jacks. 3.3x4.8x3, 2 lb, #BC-1366, Used, $7.95

RM-52 REMOTE CONTROL for radio and intercom set. Has transformer, mic & phone jacks. Source for "Macy's Phone Patch" project. 7.3x3.5x5, 5 lbs. #RM-52, Used, $4.00

BC-1361 SWITCH BOX, p/o RC-298 interphone kit for SCR-528/628 radios in Sherman tanks. With Call light, Field-phone terminals, On-Off & Signal switches; 6.8x5.4x2, 4 lbs sh. #BC-1361, Unused, $8.00

GRA-39 Control



C-2329 Local Control from the GRA-39 control group. Has a mic amplifier gain of 55 db and a microphone preamplifier output of 5 mw. 8.8x8.9x4, 12 lbs sh. #C-2329, Used, $34.95

Handset, #H-250, used checked, $18.00

GRA-39 Manual Repro, #MM-GRA-39, $15.00

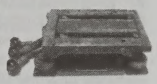
Radio Mounts

MT-1029/VRC Vehicular Mount for RT-246 & RT-524/VRC -12 transceivers. 5x12.5x16, 19 lbs. #MT-1029-U, Used, $29.50; #MT-1029-GR, Gov't-Recond., $45

MT-1898/VRC Mount for companion R-442 receiver 5x6x12.3, 15 lbs. #MT-1898-U, Used, $25; #MT-1898-GR, Recond., $32

ARC-164 MOUNT, retrofit ARC-164 into ARC-34 mount. Rear rack connector & front plug for ARC-164. 5x13.8x11, 11 lbs. #MT-6147, Used, $25.00

MT-298 Shock Mount holding two RT-66-67-68 and the PP-109-112. #MT-298, Unused, $65.00



MT-300 Mount serves as support for the RT-70/AM-65 radio system and as a junction box for interconnecting the RT-70 and interphone amp with control box C- 375 (page 9). Also, inter-connects the vehicular power source and the power supply within the amp. 13x8.3x3.1, 13 lbs. #MT-300, Used poor, $65.00

Robinson Aviation shock mount 848-2. Looks like its good for about 5 pounds. For base 5.5 x 7.5 inches with screw clamp on front. 2 lbs sh. #848-2, Used, $10.00

Military Speakers / Amps

4"Speaker, ruggedized 8 ohm 2w perm. magnet type; 300-7khz resp. p/o of LS-166; 3 lbs. #LS-445, Used $7.95

AM-6747/V Amplified Speaker for monitoring audio of R-442, RT-246/ 524 radios from remote location. Connection for H-189 or H-250 handset to allow remote keying of transmitter. Requires 28 VDC; can be modified for 12 VDC. Similar to AM4979; 5.6x5x3 + 2" top bolt; 6 lbs. #AM-6747, Unused, $35.

AM-4979/GRC, similar to AM-6747 except has 6 ft cord with U-229 plug. #AM-4979, Used-Checked, $30

Military Intercom

AN/MIQ-1(V)3 INTERCOM and/or Radio Remote Control Panel. Part of mobile or field comm control system. Appears to be a recent issue. Has 14 lighted push buttons to select inputs and outputs. Front panel mounted headset connectors which accept U-77 plugs. Has three multi-pin Bendix type connections mounted on the side. One 10 pin female, one 15 pin female, and one 32 pin male. 10.8x10.9x3.8, 17 lbs. #MIQ-1, Used, $39.95

Terminal Set Control

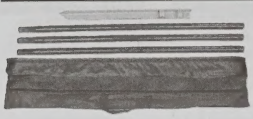
C-7827/VCC Terminal Set Control allows switching for simplex, single channel duplex, or multi-channel duplex of VCC or MRC-110/PRC-25/77. 4.7x10.5x2.7, 8 lbs sh. #C-7827, Used, $35.00

Interconnect Box

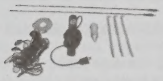
J-4024 INTERCONNECTION BOX, The J-4024/U is the interface between the TSEC/KG-84A and teletypewriter sets in GRC-106 communications shelters. Controls for transmitter 1 or 2, Receiver 1 or 2, power. Connections for teletypes and red transmitter/receiver, DLED. 15x8.1x8.1, 32 lbs sh., #J-4024, Used, $39.95

CHECK OUT OUR LATEST FEATURE ITEMS AT FAIRRADIO.COM

Mast Kits



12 foot Military Mast Kit. Comes with: three 47" long x 1 3/8" fiberglass mast sections, one 8" top mast section which holds two horizontal aerial antennas and also has 16 feet of RG-58 coax with a male BNC connection at the end, two 28" antenna elements that thread to the top section, one guy ring with guy rope, three 9" stainless steel stakes, one 27" long mast base which mounts directly into the ground, and O.D. green carrying bag with handle. There is no indication of a model number on the assembly. Excellent for field day or other portable antenna use. 12 lbs sh.
#MK-12, $59.50 each; 2 for $99.50

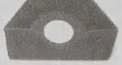


30 Foot Mast Kit. Consists of twelve AB-35 33" long aluminum mast sections, one AB-154 mast base, six guy ropes, two guy rings, three guy stakes, and a heavy duty nylon carrying bag. 32 lbs sh. All items listed above are used with the exception of the bag. #ANT-KIT-30, $145.00

HEAVY DUTY NYLON BAG, ideal for mast kits along with MANY other applications! High quality Cordura Nylon is coated for water repellency, rot and is mildew resistant. Bag has 1 1/2" web handles that wraps around bag for added strength. Two zipper slides for easy opening. Overall size: 44" long x 9" deep x 7" tall. 3 lbs sh. Comes in OD Green.
#BG-1244, New, $39.50 each; 3 / $99.50

Mount Brackets

BRACKET for mounting 2" dia antenna bases like AB-15 to vehicles or other flat surfaces. Mount plate 6.3"W x4"H; base hole center extends 3.9" from plate. 4 lbs. #SM-B114371, Unused, $10.00



Mount bracket accepts 2" diameter antenna bases such as the AB-15 or MP-65. Mounts to flat surfaces. 4.3x6.5x3.1, 4 lb sh.
#AB-450, $8.00

Angle Bracket for attaching MP-50 or similar mount bracket to corner of vehicle. Bolts for MP-50 and drilled for side mount; 5 lbs sh.
#SCC-28591, Unused, $9.95

Guy Ropes

CP-12-13 COUNTERPOISE heavy rubber-covered wire spreads to form 15 ft dia radial network for ground plane antenna; used with MS-116-117-118 mast sections; 4 lb
#CP-12-13, Used, $12.00

GUY ROPE SET, 3x20' lengths, #GY-12/42, Used, $7

ROPE, 80', #M378, $6.00; 10', #M379, $1.50

Mast Sections

3-FOOT MAST SECTIONS (left), WW-2 & Korean War vintage: painted copper-coated steel. Sequentially screw into the other; 3/16" dia MS-49 top section the smallest. Self-supports to 15 ft; MS-53 can fit into another MS-53; 1 lb sh. May have surface rust; We no longer have the MS-51 which is necessary. Select from MS-49-50-52-53,
#MS-(specify #), used $3.00 ea

MS-116-117-118 MAST SECTIONS, each 39.3"L. MS-116 is stackable bottom section, MS-117 middle and MS-118 tapered top; fit AB-15, AB-652, MP-65 & UG-558 bases. 1 lb ea. Used, $3.50 ea; Unused $5.50 ea. #MS-(specify #)-(used="U" unused="UN")

AB-21-22-24-Mast Sections, similar to MS-116-117-118 except 27" length each. AB-21 is bottom & stackable section; 1 lb each. #AB-(specify #), used, $3.25 ea

PRC-41 Mast Assembly

AB-777 Adjustable Mast Assembly from the PRC-41 radio system. Mast assembly holds the AS-1405 omni directional antenna. AB-777 is 28 1/4" long closed and 78 1/4" fully extended. 1 1/2" dia. 6 lbs.
#AB-777-U, Used,$27.95; #AB-777-UN, Unused,$39.95

Mast Bases

AB-154/RC-292 Swivel Base with Base Plate. Used with AB-85 and MS-44. This assembly consists of a yoke and clevis pin. The lower mast section is placed over this tubular section. The yoke and clevis pin allows the mast assembly to be lowered to the ground by pivoting about the stake. The base plate has three cleats for fastening the guy ropes. 5.5 x 6 x 17, 3 lbs sh. #AB-154-PL, Used, $12.95

AB-15 MAST BASE for MS-116-117-118 or AB-21-22-23-24 masts; rubber flex spring with 3.3"Lx3" dia ceramic insulator & bottom terminal. Mounts in 2" dia hole. O/a 15"L, 3 lbs sh. Used with small chips in the ceramic insulator, #AB-15-U, $8.00
As above but used good condition, #AB-15-UG,$15
Unused, #AB-15-UN, $30.00

UG-558 BASE for MS-116-117-118; mounts to SC-D-189023. 16"Hx6"dia; SO-239 conn. #UG-558-U, Used, $15.00
As above but unused, #UG-558-UN, $35.00

MP-68 MAST BASE, makes ground plane antenna when used with combinations of AB-21-24 or MS-116--118 whip masts installed as three radiating elements plus one vertical. Has center 3" dia ceramic feed-thru insulator with UHF connection and sockets for elements. Clamp on bottom allows installation on top of 1.6" dia masts like AB-35 (RC-292) or MS-44 (AB-155). 13"Hx5"Wx5"D, 5 lbs. #MP-68, Used, $29.95

IN-127 ANTENNA BASE holds three MS-116 and one each MS-117-118 for RT-77/GRC-9; 14.5"L black plastic. 2#. #IN-127, Used, $15.00

Loop Antenna

MLA-1/E Loop Antenna covering 1.8 - 14.5MHz. Has a female type TNC, female type N, and 3 pin female cannon connection on the base. Overall loop width is 13.1". Loop diameter is 15/16". Mfg by Antenna Research Association. 9 lbs sh.
#MLA-1, Used, $59.50

AS-1729 Parts

TIE-DOWN KIT for AS-1729 including tie-down rope and plastic cap for AT-1095, #AS-1729-TD, New, $8.00

Manual for AS-1729, part. repro, #MM-AS-1729, $8.50

Mast Spring only for MX-6707; 4 lbs.
#AS-1729-MS, Used, $10.00

MOUNTINGS for MX-6707 p/o AS-1729, USED:
#SCD-189023 f/ base. unused, $20.00
#SCD-446058 corner. used, $10.00; unused. $20.00
EXTENDER for SCD-446058.
#445058-EX-U, used,$6; #445058-EX-UN, unused,$10

PRC-Type Antennas

AT-272A RIBBON ANTENNA & AT-272 FLEX-BASE SET for PRC-8-9-10; 2 lbs sh. #AT-272, Unused, $15.

SHORT FLEX BASE only f/ AT-272A, #272-BO, used, $3

RIBBON only for AT-272A, used, #272-RO, $8.00

RUBBER BASE f/AT-271 (PRC-8-9-10) #AB-129, $4.00

RUBBER BASE f/AT-271 (PRC-25-77) #AB-591, $12.00

ANTENNA FOR PRC-68B, #AT-20, Used, $20.00

37.5" Ribbon Antenna for PRC-126 and PRC-128 but not PRC-68. 2 lbs. #37695721153-3, Unused, $12.00

RIBBON ANTENNA f/ PRC-6 radio, #PRC-6-RA, Used,$8

M-422 ADAPTER for using MS-116/AB-23 masts with PRC & BC-1000 as long antenna, #M-422, $4.00

WHIP f/ Canadian CPRC-26, #AT-5001, used, $8.00

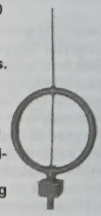
Long Wire Antenna

AS-1321/PRC-47 LONG WIRE ANTENNA 45 ft vinyl-covered with insulators at 15" and 25"; clips at insulators adjust length.
Designed for use with 150 W HF transceiver; 4 lbs.
#AS-1321, Used, $16.00

RC-432/G Reel Only from long wire antenna set. Terminations on each end to allow other RC-432's to connect todeter. 4.3x2.712.5, 2 lbs sh.
#RC432-RO, Unused, $8.95

Loop Antenna

AT-784/PRC DIRECTION FINDER LOOP ANTENNA for use with PRC-25 -77; covers 30-76 MHz in five bands. Controls FINE TUNE 0-10 MHz in 1 MHz steps and ATTENUATOR 0-40 DB in 10 db steps. Includes AT-1082 loop with whip, CG-2840 & -3344 cables in CW-445 canvas bag. Collapsed size 8x6x3.5, 5 lbs. #AT-784, Used, $34.00



AS-2360 Loop Antenna .53 Mhz to 10 Mhz, useable to 20.5 Mhz. Impedance 50 ohms, Null depth 25 db, bearing error less than 2 degrees. Originally part of TRQ-23 radio receiving set. The base of the loop contains a loop cathode follower with varactor diode for tuning, two rf amplifiers, and an output cathode follower using 4/6612 tubes which require 36 v B+, 1.1v filament. Tuning voltage 0-102 vdc, gain voltage 0-37 vdc, sense relay 24 vdc. Comes with canvas bag. 6.4x26.2x61.8, 30 lbs sh.
#AS-2360, Used, $225.00

TRQ-23 Op's Manual & Schematics repro, #OM-TRQ-23, $20.00

CALL US AT 419-223-2196 or 227-6573 24 HOUR FAX 419-227-1313

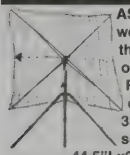
C. Crane Antennas

Justice AM Antenna With Twin Coil Ferrite. The biggest advancement in AM radio antenna design in over 50 years! The best compact AM antenna for a portable radio or home stereo. It increases available daytime stations dramatically and reduces nighttime fade out by 99%! Can also eliminate heavy static and distortion. Tuner Size: 3.3" W x 4.3" H x 1.3" D. Antenna Head Size: 8.5" W x 2.5" H x 1.3" D. New, #JAA, $99.95

Remote Kit, you can set the Antenna Element closer to a window or even outside, away from the noise and interference. You'll dramatically improve reception on weak AM stations in brick, stucco or metal-sided homes, and virtually eliminate static.
25' remote installation kit. #J25, New, $19.95
50' remote installation kit. #J50, New, $29.95

The FM Reflect is an affordable FM antenna that is equal to or better than the best indoor antenna made. Great signal to noise ratio. Works with any portable or stereo receiver. Incorporates a new dipole design for maximum gain across the FM band. Up to 213% more powerful than a standard dipole antenna. Comes with "F" connector, balun spade connector and alligator clip. Size: 54" element with an 8' feed line. 2 lbs sh. #FMW, New, $24.95

AS-2236 Log Periodic



AS-2236/GRC ANTENNA SET, lightweight with minimal guying makes this 30 to 76 MHz low-power log-periodic antenna excellent for field day! Rated 65 Watt with VSWR 3:1, 50 ohm impedance. Array mounts on 35 foot mast and unfolds to 10 ft square. Includes antenna, seven 44.5"Lx2.75" dia aluminum mast sections, 44.5"L x 2.75" dia fiberglass section, pivot for horizontal or vertical polarization, folding tripod (10.5 ft square) with foot pads, six stakes, three screw anchors, guys, ropes, and set-up info. Array may have reparable wire "breaks"; 100 lbs shipping. (UPS in 2 pkgs.) #AS-2236, Used, $125.00
ABOVE with "NEW" array: #AS2236-DM, $155.00
Array only. #AS-2236-AO, Unused, $45.00

HF Antenna System

AS-2482/TSC-60 HF RECEIVE ONLY ORTHONONAL ANTENNA SYSTEM consists of two crossed sloping dipoles 90 degrees apart with a pair of baluns at the top of the mast. Four 62 inch long mast sections 2.75" dia for 18 ft mast. Includes mast, junction box, 2/24 ft RG-213 cable, 4 stainless stakes and 4 chromed stakes. Accessories in case 31x22x8 shipping two packages 70/50 lbs. #AS-2482, unused $325.00

UHF Dipole Antenna

AT-413/TRC DIPOLE ANTENNA for 225-400 MHz, originally part of large array. T-top elements extendable 3" each end to adjust reception; 20" max T-width. Mount flange moves to adjust height. Type C connection on bottom. O/a 15.5"H, 12 lb. #AT-413, Unused, $16.00

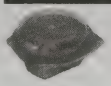
Blade Antenna

AS-2485/ARC-114 BLADE ANTENNA used with 30-76 MHz ARC-114 radio set; BNC connection. 24"H x 42"L, 15 lbs sh.
#5985-168-8383, Unused, $50.00; 2 for $75.00

Rams-Horn Antenna

AS-580A/ARN-30 Rams-Horn Antenna with two dipoles. The forward dipole is used as a glide-slope antenna while the rear dipole is used as a VOR and localizer antenna. Each antenna is terminated with a BNC connection located on the base. Antenna originally used with the ARN-30D aircraft radio that covers 108 to 126.9MHz. Overall 23.8"Dx17.3"Wx11"H, 6 lbs sh. #AS-580, Used with some cracks in the plastic, $35.00

LF-DF Antenna



AT-780/ARN-59 DIRECTION FINDER ANTENNA, 190 - 1750 KHz. Has ferrite loop, 26 V 400 Hz motor & Tx selsyn for drive direction. Operates in circuit on 26 V 100 Hz. W/ 14 error compensator screws, 0-360 scale visible under glass dome & schematic. 3.8x6.5x6.5, 8 lbs. #AT-780, Used $32.00
#NG-AT780, above no glass, $22.00

AS-313/ARN-6 DF ANTENNA, similar in function to above, but earlier design; 10x11x5, 18 lbs sh.
#AS-313, Used, $30.00

Hy-Gain Antenna

HY-GAIN MOBILE-COM ANTENNAS, new: 760-SERIES, include 52" whip, 2.5"H spring base, 18" RG-58 coax cable, PL-259 connector & UG-175 reducer; 5 lbs sh. unused, $9.95 ea:
#761 (30-33MHz) #767 (33-36 MHz)

- -

KATHREIN WHIP, 64-470 MHz; cut 4 foot length; 1-hole mount, 15' RG-58 coax. 4 lbs. #K50-54-4, $15.

+ +

TELESCOPING CHROME ANTENNAS, $2.50 each:
#TCA95-380, 9.5"L to 38"L; 6-32 thread mtg screw
#TCA84-144, 8.4"L to 14.4"L; 5/32" dia base hole
#TCA60-125, 6"L to 12.5"L, 10-24 thrd mtg screw

Guy Tie-Downs

GUY TIE-DOWNS for securing antenna masts, tents or other items. Each has 4" based triangular steel head with 1.5"L x 3/8" dia driving shaft on base. Head has 28"L steel wire with reinforced loop for attaching guy. Tie-down driven into ground by hammering a pipe (not supplied) slipped over the driving shaft; 3 lbs
#4-TD-98, NEW, $4.00 ea; 4 for $12.00

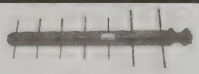
BUDWIG
HYE-QUE

BUDWIG HYE-QUE antenna insulators & strain connector for long-wire set-ups; full legal power capacity + weather-tight polymar construction. Strain assembly with PL-259 connection for lead-in wire drop. #HQ-CONN, NEW, $9.75
#HQ-INS-PR, insulator pair, NEW, $2.25/ pair

Cellular Antenna

Cellular Mobile Antenna by Antenna Specialists with trunk lid mount. 824 to 896 MHz with 3DB gain. Antenna capable of adjusting 25 degrees any direction. Antenna has a female TNC connection. Kit comes with 15 feet of RG-58 cable with a male TNC connection on one end, cord clip, mylar tape, bracket channel, a seperate TNC male connector, and allen wrench. Antenna with mount stand around 30". 3 lbs sh. #ASP-917, Unused. $18.95

Yagi Antenna



7 Element Yagi Antenna by Antenna Specialists Model #ASPJ-2996 covers 928 to 960 MHz.
Antenna can be mounted for vertical or horizontal polarization. Has type N connection. Designed to be mounted to a mast. Comes with mounting hardware. Overall length of around 21". 3 lbs sh.
#ASPJ-2996, Unused, $19.95

Hydrogen Generator

M315B HYDROGEN GENERATOR, used to provide hydrogen for 4' balloon p/o CRT-3 Gibson Girl rescue radio. Has 1200 grs of calcium hydride crystals in long can which, when immersed in water, produces hydrogen gas. (EXTREME CAUTION must be exercised in the performance of this process because hydrogen gas is dangerously flammable and the liquid calcium by-product is very caustic!) Cans are dented; suitable only for recovery of calcium hydride. 11.6"L x4.3" dia, 4 lbs.
#M315B, Unused-dented, $8.95

Box Kite

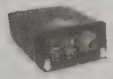
Kite is also used for lifting wire antenna; has 15"Wx12"H distress orange plastic poly-vinyl panels on metal frame. Stands overall 36"H x 15" square; sturdy frame can be re-covered with silk or similar light fabric. Some plastic sticks together - includes panel repair kit; 3 lbs sh.
#SEB-42ABK, Unused, $24.00

Antenna Tether Wire

306 FOOT SPOOL of vinyl-covered braided #22-size intended for use with above; usable on the ground as long-wire antenna also. On spool; 3 lbs. sh.
#SEB-400X3, unused, $12.95

Impedance Match

CU-459/AR IMPEDANCE MATCH NETWORK, black plastic bullet-shaped designed to mount to aircraft wing. Holds two AT-624 antenna elements (not available); 50 ohm BNC-conn. P/o AN/ARA-31 24-49 FM MHz homing set; 4.3x3.3. 2# .
#CU-459, Unused, $7.00



KY-149/AR KEYER, couples homing antenna to radio; requires 28 VDC. Has a 28VDC globe 60 RPM gear motor. 2.3x7.7x4.9; 3 lbs
#KY-149-U, Used, $10; #KY-149-UN, Unused,$14.95

GET A BETTER PICTURE OF OUR ITEMS AT FAIRRADIO.COM

Headsets

HS-32 STRAP HEADSET, one 250 ohm R-18 element, with PL-55 plug; for TG-5 keyer. #HS-32, Used, $8.00

H-16 HEADSET, designed for use in high-noise areas such as tanks, replacing HS-30. 250 ohm elements with matching transformers produce 8000 ohm (series) impedance. Similar to H-65 expect 18" cord PJO-54 plug. #H-16, unused, $10.00

H-227 HEADSET, with two 300 ohm elements in 4" x 3.5" vinyl cushions, 42" coil cord, and U-77 plug. Used with GRC-3--8, GRC-106 radios. OD-green & black; 2 lbs. #H-227, Used, $17.95

HS-16A WWII Style Military Headset, olive-drab, cloth covered, with adjustable double steel band. Headphone impedance is 520 ohms nominal. Consists of dual magnetic element with plastic cap and shell earpieces. 54" brown cloth-covered cord w/dual nickel plated pins. #HS-16A, Unused, $19.95

H-63 HEADSET and BOOM MIC, 600 ohm receive and 100 ohm M51 mic elements; with JJ-055 and 3-pin jacks. 3 lbs. #H-63, Unused, $14.95

H-113 600 OHM HEADSET, similar to CW-49507 except O.D. green color with cushions and PL-54 plug on 18" cord; 3 lbs. sh. #H-113, unused, $7.95; 2 for $12.

HS-30 HEADSET 250 ohm impedance light-weight WW-2 era set has cord wired to CD-604 500:4000 ohm matching transformer and PL-54 plug; 3 lbs sh. #HS-30, Used, $9.95

H-264/PRR-9 EAR-PLUG HEADSET, coil cord & 2 mm dia jack; 300 to 2500 Hz response. #H-264, NEW $4.00

CTE49214 headphones f/ WW-2 MAB radio; no scull cap, #CTE49214, $7.50

VRC-12 HEADSETS

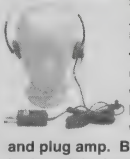
H-251 HEADSET w/ vinyl cushions, 24" coil cord and U-182 plug; black color. #H-251-U, Used, $8 #H-251-UN, Unused, $12

H-161E HEADSET with 300 ohm boom mic, push-to-talk switch, & CX-8652 Y-coil cord; vinyl cushions. Black. #H-161E, Unused, $59.50

H-195 HEADSET & BOOM MIC, rubber-covered single 300 ohm phone element, 40 ohm mic & push-to-talk switch. Similar to H-144 except has 10 foot cord with PJO-55 & -68 plugs; 4 lbs sh. #H-195, Unused, $25.00

WIRELESS HANDS-FREE HEADSET for two-way FM radio communications in high noise environments. Uses throat mic and ear cushions with EPA noise-reduction rating of 23 DB. Operates on 49.86 Mhz; controls for Volume & Squelch, Velcro adjustable head web and mic straps, 6" antenna and fiberglass case. Requires two 9 V batteries; 6 lbs. #7800H, NEW, $74.50

Plantronics Headsets



Starset Supra Amplified Operators Headset with voice tube by AT&T. Cushioned earpiece with adjustable headband. Comes with clothing clip and plug amp. Brown color. Unused in the original packaging. 2 lbs sh. #KS22990-L1, $29.50

STARSET OPERATOR'S HEADSET, ultra-light set fits over the ear with flexible voice tube. Has push-to-talk switch on 4 ft coil cord w/ dual 1/4" dia plug. Includes spare ear tips, glasses clip & pouch; black color. #HS0110-2E, New, $34.50

Plantronics Starset HS0309-1 Operators headset that fits over the ear with six earpices of various sizes. Has dual connector with 1/4 inch plugs (similar to PL-55) for connection to system. #HS0309-1, Unused, $30.00

Microphones

600 ohm Uni-Directional Dynamic Microphone. Frequency response: 50-15,000Hz. Effective output Level: -54dB. 8.5' cord with a gold plated two way plug for 3.5mm or 1/4" phone plug. With on/off slide switch. Mfg by Merry #DM-35. Unused, $6.50 ea: 3/$14.00

Handheld Dynamic Power Microphone. Impedance of 1.2K ohm. Frequency response of 300-6KHz. Coiled cord with a 4 pin female connector. Marked TransVideo but made by Merry #DMC-510, Unused, $15 each; 3/$30

CB microphone made by Merry #DMC-523 but marked Stoner. Looks like standard hand mic with coiled cord which stretches to 36 inches. Has 4 pin connector. No further information. #DMC-523, Unused $8. each; 3/$20.00

500 ohm Omnidirectional Dynamic Desk Top Microphone. Has Off/Lock slide switch and push-to-talk switch. Frequency response: 200Hz-5KHz. Sensitivity: -76 +/- 4DB at 1KHz Re 1V/ubar. Coiled cord with no connector on the end. Mfg by Merry #DMC-521, Unused, $17.95

As above except it has a Monitor switch instead of Off/Lock switch. Coiled cord with a 4 pin female connector. #DMC-529. Unused, $12.95

GENERAL ELECTRIC MIC from highway patrol vehicles; PTT switch has "C" & "S" positions. Also has amplifier circuit & coil cord w/ DB-9 connector: 2 lbs. sh. Used, #GE-CS-MIC, $8.00

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T-45 MIC Carbon type 100 ohm 50 db below 1 mv, flat response with PL-291 two contact male plug, 11" cord. #T-45, Unused, $3.00

Headbands

Hard to find HB-7 Headband for the famous HS-23 and HS-33 headsets. Less connector. 2 lbs sh. #HB-7, Used good condition, $45.00

Old Military Black Leather Headband. Holds a 1 3/4" receive element. 2 lbs sh. #BLK-BAND, Unused fair condition, $12.00 each; 2 for $20.00

Headband by Murdock f/ R-14, #HB-5, $14.00 each; 2 for $22.00

LIP MIC for CW49507 or H-62 headset; 100 ohm, #CW-51071, $4.00

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#M-29B MIC with U-77 plug; for T-195 T-368, etc. USED $12.00

#M-52 MIC with 5 foot cord & PL-68 plug. UNUSED, $12.00

#M-80C MIC, unused, $14

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Low-impedance omni-directional for public address use; 150 to 4000 Hz response. Swivel mount; 5/8" dia 27 threads/ inch. Cannon XL-3-11SC connector; 2 lbs sh. Used: #M-43-EV, Electro-Voice, $8.95

#M-43-UL, University Loud-speaker mfg. $12.00

#CX-3094 MIC CORD with mating connector for above; 3106-14S-7P 3-pin male on other end. 25 ft Used, $7.50

TRIPOD MIC STAND for above, Used #MT-596, $10 ea; 2 / $16

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WW-2 CHEST SETS Unused. #H-12, $7; #T-26A, $7; #T-46/TD3, $7

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RS-83 Mask type Aircraft Microphone by Telephonics. Mic is Hi-Z (100K ohm) and has a 16.5" cord with a 33" extension cable that has a push to talk switch. #RS-83, Unused, boxed $12.95

Handsets

H-250 HANDSET w/ push-to-talk button, coil cord & U-229 plug. #H-250, Used Checked, $18.00 #H-350, Used Checked, $35.00

H-33/PT HANDSET for GRC-3-8, PRC-10; w/U77 plug. #H-33, Used Checked, $17.50

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TS-9* HANDSET, p/o EE-8 field phone; 2 lbs. #TS-9, Used, $14.95

H-90 HANDSET, like TS-9 but w/ U-77 plug; #H-90, $12.00

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Handset f/ BC-1000, #H-23 (or =) , $35

Beige Standard Handset newer style mfg by ITT, #BEIGE-H, Unused, $3.25

JEN-20 HANDSET w/ AMPLIFIED receiver for hearing impaired; black or beige. #JEN-20, NEW, $15.00

Western Electric Handset with 1903 patent date; black painted brass handset with PTT-switch appears to be same as TS-7 handset used with pre-World War-2 EE-5 field phone. 3-wire cloth cord. 4 lb. #D14842, used, $45.00

EMAIL US YOUR INQUIRIES AT FAIRADIO@WCOIL.COM

Accessories

GSA-6 CHEST GROUP SA-142 PPT-switch & CX-1077 cable w/ U-77 plug connect H-63 headset to GRC radios. #GSA-6, Used, $6

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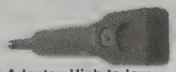

ADAPTER, 1/4" phone plug going to 2 pin jacks. #14-PJ, Used, $2.50

MC-385D Headset Adapter, High to low impedance with PL-55 plug to a JK-34 jack. Used with HS-33 or HS-38 headsets. Works between jack box and CD-307 cord. 1 lb. #MC-385D, Unused, $3.95

PHONE PLUGS, #PL-354 red. used, $4.00
#PL-55 on 30" cord. used, $2.00
PL-68 (or =) Mic plug. #PL-68-U, $4; #PL-68-UN, $8
DOUBLE PLUGS, unused:
#D178542 (WE289) for headsets, etc. $3.00
#2PPC f/ switchboards, $3.00

#JK-33 PHONE JACK to fit PL-68 plug. Used, 2/$1.00
#JK-34 PHONE JACK to fit PL-55 plug. Used, 2/$1.00

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MIC ELEMENTS, checked: #F-1 for TS-9, $4.00
#M-51 for H-63, M-29, $4.00; #M-235 for H-33 , $5.00
#TA-117 for H-60 (TA312), $5.00;
WE #D173011 sound-power mic for TS-10; brass. $10

RECEIVE ELEMENTS, checked:
#1227 (or =) for H-33 receive, $5 ea;
TS-9 receive element, CALL
#TA-235 for H-60 (TA312), $5.00
#R-30 receive element for HS-30, $1.00

Headset Cords & Cushions

CD-604 CORD with impedance matching transformer 500 ohm to 4000 ohm; 6" cord & PL-54 plug. P/o HS-30 headset. #CD-604, Used, $1.50

CD-318 Cord w/ Push-to-Talk Switch w/ lock; has 7" cable w/ PL-68 plug and JK-26 jack. Use with T-30 throat or T-45 lip mics; less strap. 2 lbs sh. #CD-318, Used, $14.00

CD-307 Extension Cord for headsets with PL-54 plugs like CW49507, H-16, H-113, HS-23/-33; 65" cord has JK-26 jack & PL-55 plug; #CD-307-U, Used, $4.00; #CD-307-UN, Unused, $7.50

MICROPHONE EXTENSION CORD with PL-68 plug. #CW-49561, Unused, $15.00

CORD with PL-55 one end, PL-68 on other; 12 feet long 2 lbs sh. #CX-2481, Unused, $9.95

MIC COIL CORD, 1-shielded, 2- wire not; stretches 30"-42". #SH-CC3042, NEW, $2.50

"EXTRA-STRETCH" PHONE COIL CORD 4 ft to 25 ft extension w/ modular jacks; tan. #T425-MOD, New, $3

SWITCHBOARD CORDS

#PL68-68, black cloth covered cord with early style phenolic PL-68 plugs on each end; 68"L. $7.50
#G2-SWB-72, grey cloth-covered cord with double 310 plug on each end: 72"L, 2 lbs. $6.50
#R2-SWB-72, as above except red, $6.50
#500286-102, red with black cloth covered cord with double 310 plugs on each end; 25"L. $10.
#500286-104, same as above except 50"L. $12.00
#WE-338A, dirty light brown dual cloth covered cord w/ double 310 plugs on each end; 17"L. $8.
#310-56, grey cloth covered cord with 310 plug on each end; 56"L. $8.00

"Y" CORD

#CD-620F, molded 16"L legs & 6" cord with 2 lugs each end; for HS-30 headset. $2.00

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Headset Cushions

#M-301 4" Chamois cushions for HS-23 or HS-33, $8 pr
#M-300 Inserts for HS-30, Unused, $2.95 pr

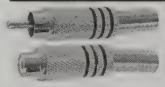
1/4" Plugs

1/4" STEREO PLUG WITH STRAIN RELIEF, NICKEL. Solder connections. Spring cable guide. #CA022, 2 for $0.99; 5 for $2.09

As above except mono, #CA021, 2 / $0.99; 5 / $1.99

RIGHT-ANGLE 1/4" STEREO PLUG WITH STRAIN RELIEF, NICKEL. Solder connections. #CA026, 2 for $1.19; 4 for $1.99

RCA Connectors



NICKEL-PLATED PHONO RCA PLUG. Spring cable guide. Colored identification ring. Solder connections.

Boot color black, #CA063B, 2 for $0.99; 5 for $2.09
Boot color red, #CA063R, 2 for $0.99; 5 for $2.09

RCA JACK.
Boot color black, #CA064B, 2 for $0.99; 5 for $1.99
Boot color red, #CA064R, 2 for $0.99; 5 for $1.99

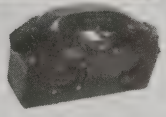
J-37 Key & Leg Iron

J-37 Key with a KY-852 leg iron attached for field use. Comes with cable with a U-229 connector. 3 lbs sh. #J-37-UN, Unused, $39.50

Sound Power Phones

TA-1/PT TELEPHONE, sound-powered unit requires 2-conductor field phone wire connected to another TA-1 for communication without batteries. Palm-operated generator provides approx 100 V to "buzz"-signal another phone; also visual indicator. Has coil cord with push terminals for wire hook-up and plastic carrying case. 8.5x3.5x3.5, 4 lbs shipping. #TA-1,
Used Checked, $35.00 ea. 2 for $60.00

TA-312 Field Phone

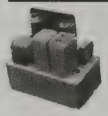


TA-312 FIELD TELEPHONE rugged light-weight unit replaces famous EE-8 field phone and is usable with them. Includes G-42 crank generator, BZ3 clacker call signaler, H-60 handset, and canvas carrying bag w/ strap. Requires 2 D-cell batteries (not supplied.) 12x7x4, 12 lbs. #TA-312, USED-CHECKED, $75
Manual for TA-312, partial repro, #MM-TA-312, $8.50

TA-838 Field Phone

TA-838/PT MILITARY FIELD TELEPHONE has push-button numeric tone pad and is designed for 2- or 4-wire communications; replaces old EE-8 and TA-43/312 field phones. Ringing signal audible only in 4-wire hook-up. TA-838 also operates over standard telephone lines but won't ring. Rugged thermoplastic construction; requires four C-cell batteries. Handset cord has poor insulation. 6x9.8x5, 8 lbs.
#TA-838, Used Checked, $69.50;
Ops MANUAL, #MM-TA-838, $10.00

ART-13 Parts



ART-13 CRYSTAL CALIBRATOR, provides 50 KHz fundamental using 200 KHz crystal. Also 1000 Hz tone for MCW. Tubes 2/12SL7, 12SA7; 6x5x3, 4 lbs #XCAL-ART-13, used, $20.00

Speech Amplifier for ART-13. #SA-ART-13, Used, $25

ART-13 PA Plate meter. #PMTR-ART-13, Used, $20.00
ART-13 Antenna Current meter, no transformer, #AMTR-ART-13, used, $20.00

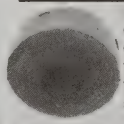
Knobs for ART-13
Antenna loading 0-100, 200-100 #KN1-ART-13, $10.
Antenna tuning coarse Triangles marked 1-13 ccw. #KN2-ART-13, $7.50
Antenna tuning fine 100-0, #KN3-ART-13, $10.00
High Frequency tuning Triangles 2 - 18 mhz, #KN4-ART-13, $7.50
High Frequency tuning fine 0-99 over 360 degrees. #KN5-ART-13, $10.00

Small indexing dial from High Frequency tuning and also used on some of the plug-ins. #D-ART-13Unused, $4.00
T-bar locking bar for ART-13 tuning knobs. #T-ART-13, $4.00

Manual Switchboard

SB-993/GT Manual switchboard, designed for quick "connect / disconnect" of up to six battery or sound-powered field phones (such as EE-8, TA-1, TA-43/312) plus and operator unit. Consists of seven U-184/G terminal plug-jacks that plug into "stack" onto rear of another U-184. Active lines make neon lamp in U-184 "glow". Also includes MT-2156/GT metal case; 1.3 x 12 x 3, 6 lbs sh. #SB-993, Unused, $29.95

Field Phone Wire



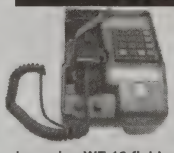
MX-306A Field Telephone Wire Reel, canvased-covered reel of 1/2 mile (2600 feet) WD-1A/TT twin lead black vinyl-covered steel wire. Intended for use with EE-8, TA-43, TA-312 and similar field phones. 10" D x 5"H, 22 lbs sh. #MX-306A, Unused, $85.00
As above except WD-1 wire, #MX-306, $90.00

100 feet of WD-1A wire less spool, #WD-1A-100, $12
500 feet of WD-1A wire less spool, #WD-1A-500, $40

TA-341 Phone

TA-341/TT TELEPHONE SET push-button 4-wire unit for use with tactical switches using four C-cell batteries; usable in conventional point-to-point telephone line (plug may need changed) Range >3.2 km. Signal out 900-3400 Hz digital tone; 90 V 20 Hz signal in. W/case; 4.5x10.5x10.5, 10 lbs. shipping. #TA-341, Used, $19.95

TA-954 Phone



TA-954/TT NON-SECURE DIGITAL VOICE TERMINAL used in Tri-Tac comm-system; 4-wire set xmits and receives diphase-modulated digital voice & loop signaling info at 16K or 32K bits. 125 ohm line impedance 125 ohms; range 4 km using WF-16 field wire (no stock). Requires 24-56 VDC. Tone pad characters 0-9, FO-F-I-P-R-O-C; also Volume L-H Ring - Receive & H-350 handset. Plastic case EMI/ EMC static protected. 7.3x4.5x10, 8lb.
#TA-954-U, Used-reparable, $40.00
#TA-954-UN, Unused, $59.50

PLACE YOUR ORDER OVER THE WEB AT FAIRRADIO.COM

Carrier Monitor

Unit is used for remote check of xmitter operation. Good parts including 600 VDC 35 ma transformer; tubes 0A2, 6AL5, 6J6, 6X4; 600:600 ohm AF xformer, DPDT & SPST toggle switches two 49 pf trimmer caps, etc. LESS 3 pf 15 KV vacuum caps 6x8.5x6.3, 12 lbs.
#CAR-MON-87, unused, $7.00
As above but w/ vacuum caps, #CAR-MON/VC, $15

BC-620 / 659 Accessories

ALIGNMENT ADAPTER for BC-659 transceiver; allows changing of crystals and alignment of the set without the use of an external meter. Mounts inside the BC-659. 2 lbs sh. #M-399 $5.00

Adapter f/ BC-620, #M-394, $5.00

ALIGNMENT TOOLS for BC-620/659:
#TL-150 or #TL-207, $5.00

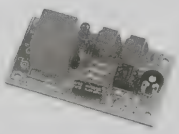
20" TUNE SPLINE, #MC124, $10.00
RIGHT ANGLE, #MC-136, $4.50
T adapter for MC-124, #MC-203, $7.50
MC-127 Spin Tuning Knob for spline ARN-6 & BC-229, #MC-127, $7.50

Electronic Kits

FM OSCILLATOR. Mini FM modulator (100-108MHz). Integrated pre-amplifier, to which any type of microphone may be connected. Family broadcasts, baby phone, security. May be received by portable FM radio or tuner. power supply: 9 - 12VDC. Input sensitivity preamplifier: 5mV. PCB dimensions: 1.8"x2.8". #K1771, $12.99
Enclosure for above, 4.7" x 2.4" x 1.6", #G410, New, $4.46

UNIVERSAL MONO PRE-AMPLIFIER. This kit has been developed as pre-amp for a number of audio applications where there is insufficient input signal. Applications as a microphone pre-amplifier or for level correction. Power supply: 10-30VDC / 10mA. Output impedance: 1Kohm. Adjustable output level: max. 40dB. Frequency range : 20Hz to 20KHz ± 3dB. Max. input signal : 40mV. PCB dimensions: 1.2" x 1.7". #K1803, $9.99

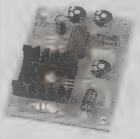
UNIVERSAL STEREO PRE-AMPLIFIER. Frequency range 40Hz - 30kHz (-3dB). Maximum input voltage 50mVrms. Adjustable gain 40dB max. Output impedance 1Kohm. Requires 10-30V DC / 5mA. PCB dimensions 1.7" x 2.6". #K2572, $17.99
Recommended Power Supply Kit, #K1823, $12.99



UNIVERSAL START/STOP TIMER. Miniature timer for all applications requiring a delay of up to 60 minutes. The control range may be adjusted. Requires 15V DC / 55mA. Relay 3A / 220V switchable time interval (without modifications): adjustable from 0 to 15 minutes. PCB dimensions 1.5" x 2.7". #K2579, $14.99

Velleman Electronic Kits

Kits require insertion and soldering of components! Pictures are shown after assembly.

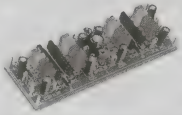


POLICE SIREN, Enter the world of amazing electronic sounds and noises. Create or imitate sirens of all kinds by adjusting 3 trimmers. Powerful sound with a 2W amplifier on the PCB. Requires 8 - 14V DC / 1A. 3.1" x 2.2", #K2604, $12.99

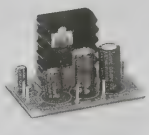
AM/FM ANTENNA AMPLIFIER. This amplifier provides 22dB gain wherever you need it. DC power supply directly or via the coax cable. Metal housing included. Gain: 22dB. Power supply: 12V to 15V / 3mA. Input and output impedance: 50 - 75ohm. Frequency range : 10MHz to 150MHz. Note: It is important to put the amplifier as close as possible to the antenna. 3.4" x 1.4" x 0.9". #K2622, $14.99

2.5 WATT AUDIO AMPLIFIER. Small PCB for both pre-amplifier and power amplifier, which may be used separately. No adjustments required. Short circuit protection. Power supply: 4.5 to 15Vdc. Input sensitivity - power amplifier: 150mV / 20Kohm. Pre-amplifier: 20mV (12V) / 200Kohm. Frequency output: 60Hz to 15KHz. Output power : 2.5W max. (4ohm / 12V). 1.7" x 1.3" x 1.1". #K2637, $14.99

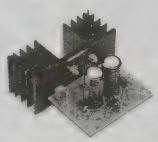
FROST INDICATOR. Drive more safely in freezing weather. This kit uses a flashing LED to indicate a road temperature close to freezing point; below that point the LED is on continuously. A reliable temperature sensor with mounting stud is included. Requires 10 - 15V DC / 25mA. PCB dimensions 2.2" x 1.7". #K2644, $14.99
Recommended housing, #G404, $2.34



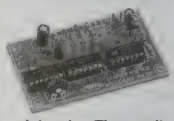
DUAL STEREO VU METER. This module contains 2 stereo VU meters with 2 x 5 LED indicators and can be used with the 6 or 12 channel mixing panel. May also be used with other equipment, to indicate the output level of an amplifier. Indication: -13, -8, -3, 0, +3dB. Sensitivity: 0dB = 0.775Vrms (easily adjustable). Supply voltage : 14 - 18VDC / 62mA. PCB dimensions : 1.1" x 3.9". #K2668, $24.95



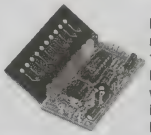
7W MONO AUDIO AMPLIFIER. This small amplifier is constructed around the TDA2003 IC, capable of delivering 4Wrms at 4ohms. The IC is completely thermally and short-circuit protected. A conventional direct current can be connected as supply. Music power output : 7W / 4ohm. RMS output: 3.5W / 4ohm or 2W / 8ohm. Total harmonic distortion: 0.05% (1W / 1KHz). Frequency response: 20Hz to 20KHz (-3dB). Signal/noise ratio : 86dB (A weighted). Input sensitivity: 40mV / 150Kohm. Overload and short-circuit protected. Supply voltage: 15VDC (8 to 18VDC possible) / 0.5A. 2.2" x 1.4". #K4001, $11.95



2 X 30W AUDIO POWER AMPLIFIER. This small amplifier is constructed with the TDA1521 IC, with a maximum supply capability of 2 x 15Wrms (4ohm) of 2 x 10Wrms (8ohm). The IC is thermally and short-circuit protected. Additional rectifier and smoothing filter are unnecessary, as alternating current can be directly connected to the unit. See our website for further specifications. 2.8" x 2.0". #K4003, $35.00



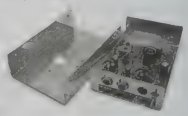
PINK NOISE GENERATOR. A pink noise generator and a spectrum analyzer are used to analyze the acoustic properties of a room. A microphone with a linear frequency response is used to pick up the pink noise. The result will be the frequency response of the room. An equalizer will allow you to check and correct the response of the room. Easily adapted to produce "white noise". This pink noise kit produces a pseudo random digital noise with a clock frequency adjustable between 30 and 100khz. Regulator sliding length: 33 bit. Pink noise filter: 3dB/octave (20Hz to 20kHz). Output 150mVrms into 1000 ohms. Requires 9 - 12V AC or 12 - 15V DC / 5mA. #K4301, $15.95,
Recommended housing, #G410, $4.46



MONO VU-METER 10 LEDS. VU meter with a scale consisting of 10 LEDs and an adjustable input. Dot or bar indicator. Supplied with 1 front panel suitable for horizontal or vertical mounting. Range: -20dB to +3dB. Power supply: 10 - 15VDC / 250mA. Input sensitivity - low input: 150mV to 6Vrms (47K). high input: 1.5V to 60Vrms (470K). 1.5" x 2.7". #K4304, $19.95

STEREO VU-METER 2 x 10 LEDS. Stereo VU meter with 2 x 10 LEDs (dot or bar indicator) and an adjustable input. Included in package: 1 front panel suitable for horizontal or vertical mounting. Range: -20dB to +3dB. Power supply: 10 - 15VDC / 250mA. Input sensitivity - low input: 150mV to 6Vrms (47K). high input: 1.5V to 60Vrms (470K)
PCB dimensions : 1.5" x 2.7" (x2). #K4305, $29.95

AUDIO POWER METER. 10 LED scale, up to 2000Wrms power measurements. Does not need a special power supply, because it is supplied directly from the speaker output. Ideal for car audio systems and PA systems. Also usable for bridged amplifiers. The unit can be used both horizontal and vertical. The kit comes with a front panel and four attractive front stickers, for the different scales. Four different scales - At 4 ohm load in low power mode: 0.3 to 400Wrms. At 4 ohm load in high power mode: 10 to 2000Wrms. At 8 ohm load in low power mode: 0.15 to 200Wrms. At 8 ohm load in high power mode: 5 to 1000Wrms. Minimum input sensitivity: 1.1Vrms (low power mode). Maximum input voltage: 130Vpeak (high power mode). Current consumption: 25mA at full scale. Luminous intensity: 8 to 20mcd / LED. 4.7" x 1.6" x 1.1". #K4307, $49.95



AUDIO/VIDEO TV MODULATOR. The audio and video signal are converted into a UHF TV signal that can be received by the TV within a 96 ft range. The kit includes housing and antenna connector. UHF channel 21 (450 - 500MHz adjustable). Requires 12 to 15V DC / 100mA. 2.8" x 4.1" x 1.2". #K4601, $39.95

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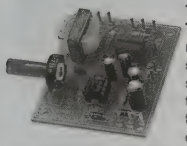
Velleman Electronic Kits

Kits require insertion and soldering of components! Pictures are shown after assembly.



TELEPHONE AMPLIFIER. This telephone amplifier may be used as a free-standing amplifier with speaker, e.g. to listen to a telephone conversation, or the output may be connected to an amplifier or mixing panel (e.g. radio stations). Input - isolation transformer interface. Speaker output 0.5W / 8ohm. Line output 0dB (0.775Vrms). Requires 7 - 9V AC or 9 - 12V DC / 150mA. PCB dimensions : 2.5" x 2.1". #K4900, $14.95
Recommended housing, #G416, $6.26

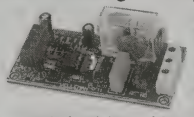
SIGNAL TRACER/INJECTOR. This signal tracer /injector has been designed to inject or detect a specific signal into an audio circuit in need of repair (such as amplifiers, radios, tone controls, ...) so as to detect the fault. In this way problems can be traced more easily. The signal tracer may also be used as a simple monitor or amplifier. Independent injector/tracer. Injector - 0-2.5Vrms output (adjustable), output impedance: 1.5Kohm, frequency: ± 1KHz. Tracer - 3.5mV to 10Vrms sensitivity (adjustable), gain: 40dB, input impedance: 50Kohm. Output power: 0.5W / 8ohm. Power supply: 7-9VAC or 9-12VDC / 150mA. PCB dimensions: 2.4"x2.1". #K7000, $19.95

VOLTAGE DETECTOR this device locates house wiring within walls and traces wire to find a break. A flashing LED indicates when voltage is present. The flashing speed indicates how close the wire is, approx 3.9 inchs maximum. For audio indication you can add buzzer SV4/12-S. 9V battery (not included). 2.2"x2.5". #K7101, $12.95
Recommended housing, #G407, $4.42

METAL DETECTOR can detect wiring, pipes, or metal parts within a wall to a depth of about 3.15 inches. A LED indicates detection of metal. For audio indication, buzzer type SV4/12-S may be connected. 9V battery (not included). Size 2.2" x 2.5". #K7102RS , $13.00
Recommended housing, #G407, $4.42

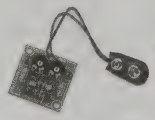
LOW COST UNIVERSAL BATTERY CHARGER. Charges NiCd or NiMH batteries. Ideal for car use. Transforms a mains adapter in to a charger (adapter socket included). Charge cellular phone, toys, portables, video batteries, ... Selectable charge current 50mA, 100mA, 200mA, 300mA, 400mA. LED charge indication. Supply voltage from 6.5V to 21V (depending on used battery). Supply current is same as charge current. Power supply polarity protected. LED function indication. 1.6" x 2.4". #K7302, $11.95
Recommended housing, #G403, $2.28

DC TO PULSE WIDTH MODULATOR for control for DC motors, lighting, small heaters. Pulse width modulation (PWM) produces a series of pulses whose duration is proportional to a DC voltage. This allows for very efficient control of DC motors and other DC operated devices. Overload and short circuit protected. Input voltage 8 - 35 VDC output current 6.5A. Dimensions: 3.4"x1.9"x1.8". #K8004, $22.95



MULTIFUNCTION RELAY SWITCH. 15 functions including timers, switching, flashing, interval, random switching, ... Two pre-programmed delays. Learning mode for delays of 2s up to 12 days. Pushbutton control. EEPROM for delay time storage in case of power failure. On-board transient filter for the relay contacts. Suitable for control of incandescent lighting, halogen lighting, fluorescent lighting, fans, valves, buzzers,... Requires 9-12VAC or 12VDC. Max. load : 2.5A (275W / 110V). 3.4"x1.5"x1.0". #K8015, $22.50
Recommended housing, #G410, $4.46

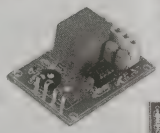
10-CHANNEL, 2-WIRE REMOTE CONTROL. Control 10 devices using only 2 wires up to 55 yards apart. Microprocessor controlled. Inputs can be push-buttons, switches or open collector outputs. The receiver section provides 10 open collector outputs that control relays directly. Terminal block connectors for all input and output connections. All outputs are provided with LED indication. Can be used with: K6711, K8000RS, K8006, or relay cards: K6714, K6714-16. 10 open collector outputs : 50V / 100mA. Requires single 12-15V AC or DC, 300mA. Dimensions: control pcb : 2.7" x 2.0" x 0.6"; receiver pcb: 4.0" x 2.0" x 1.0". #K8023, $39.95



FLASHING LEDs. For different applications (such as model construction), and recreational. Adjustable flashing speed with two potentiometers. ± 8mA. Requires 9V battery (not incl.) 1.2" x 1.4" x 0.6". #MK102, $8.95

SIGNAL GENERATOR. Signal output: sine wave, triangle, square wave and integrator (selectable through jumper). Signal frequency: about 1KHz (fixed). Output level: adjustable from 0 to 100mVrms (LEVEL potentiometer). Requires 9V battery (not incl.). 2.2"x1.6". #MK105, New, $9.95

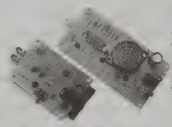
WATER ALARM. Gives alarm sound when water is detected. Incorporated alarm buzzer. Water sensor can be placed at a distance by cutting the board and using wires to connect the sensor. Requires 9V battery (not incl.). 1.8"x2.8". #MK108, $7.95



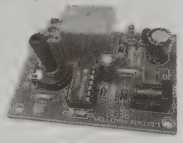
INTERVAL TIMER. For intermittent operation of circuits and equipment. Blinking light, video/photo single frame shooting, slide projector control, miniature models. 3A/24V output relay with dry switch-over contact. Pulse time adjustable: between 0.5 and 5 sec. Pause time adjustable: between 2.5 and 60 sec. Power supply: 12Vdc / 100mA. 1.6"x3.4". #MK111, $9.95

SIREN SOUND GENERATOR. Generates 4 different sounds: police siren, fire brigade, emergency vehicle and laser gun. RV1 adjusts sound pitch. On/off switch and PCB speaker included. Requires 9V battery (not included). 2.4" x 1.6". #MK113, $12.95

POCKET VU METER. 5 red LEDs. Incorporated microphone. Adjustable sensitivity. Requires 3V type CR2032 battery (not included). #MK115, $8.95



IR LIGHT BARRIER. Applications: announce visitors, warn against burglars, set boundaries, for science projects,... Audible (85dB) and visible (LED) alert. Range 3.3ft to 13ft. On/off switch provided. Requires - Transmitter: 9V DC / 50mA max; Receiver: 9V DC / 20mA max. 9V battery holder and adapter jack included. Transmitter: 2.2" x 1.6". Receiver : 3.9" x 2.0". Not for outdoor use. #MK120, $12.95



LIGHT SENSITIVE SWITCH. Switch-on at dusk, turn off at dawn, fully automatic. Wide-range adjustable sensitivity. Delay circuit avoids cycling. Relay output NO/NC 24V/5A max. Requires 12VDC. With adapter-connector. 2.6" x 2.0". #MK125, $8.95

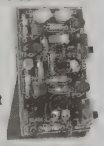
RUNNING MICROBUG. Attractive bright colored bug-shaped miniature robot. The microbug is always hungry for light, it drives towards it! Two open chassis sub-miniature motors. Adjustable light-sensitivity suits almost any light condition and allows to control it's 'bug-like' behavior. LED 'eyes' indicate driving direction. Stops in total darkness. Requires 2 x 1.5V AAA batteries (not incl.). 4.0" x 2.4". #MK127, $15.95

CRAWLING MICROBUG. Attractive bright colored bug-shaped miniature robot. The microbug is always hungry for light, it drives towards it. Two open chassis sub-miniature motors. Adjustable light-sensitivity suits almost any light condition and allows to control it's 'bug-like' behavior. Adjustable speed. Choose between two different walks. LED 'eyes' indicate driving direction. Stops in total darkness. Requires 2 x 1.5V AAA battery operation (not incl.). 4.3"x3.5". #MK129, $19.95

QUIZ TABLE. Up to four players can compete. LED indicates first button pushed. Quizmaster 'RESET' -button with 'button pushed'-indication. Two units can be daisy-chained for eight-player-fun! With on-off switch. Requires 9V battery (not included). 4.3" x 3.1" x 1.1". #MK133, $9.99

SUPER STEREO EAR. Stereo audio amplifier boosts sound 50 times. Great for the hearing impaired (e.g. when watching TV), as a gadget, science project, ... With volume control and on/off switch. Requires three AA batteries (not included). 2.4" x 2.1" 1.7", #MK-136, $11.99

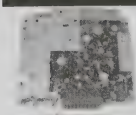
DUAL WHITE LED STROBOSCOPE. Two super bright white LEDs. Powerful flash effect great for party's, in scale models, as attention grabber, to observe moving parts, etc... Slow/fast selector and speed adjust trimmer. Speed adjustable between approx. 1 and 60 flashes/second. On/off switch. Requires 9V battery (not included). Power consumption 40mA max. 2.2"x1.3"x1.6". #MK147, $10.95

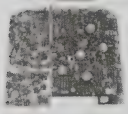


DUAL SUPER BRIGHT FLASHING RED LIGHTS. Two super bright red LEDs. Powerful flash effect for emergencies, warning signs, as eye-catcher, 'alarm-active' - simulation, etc Ö 'Auto turn-on at dark' - mode with adjustable sensitivity. On/off switch. Requires 9V battery (not included) (12V possible). 2.2"x1.3"x1.6". #MK148, $7.95

EMAIL US YOUR INQUIRIES AT FAIRADIO@WCOIL.COM

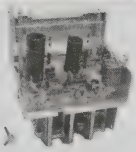
ARC-187 Cards





ARC-187 Receiver RF/Modulator circuit cards removed from ARC187 for some TCTO. These two circuit boards were the heart of the transceiver. No schematics or hookup info. Mostly descrete components with some surface mount. More pictures at www.fairradio.com/arc187.htm Each board is 4.5x4.2x0.8, 2 lbs sh. #CB-ARC-187, Used good condition, $30. both circuit cards.

RF Amp. / Preselector



Harris RF301/GRC-165 2-15 Mhz RF Amplifier/Preselector section contains V1 6DC6, V2 12BY7 which provide tuned grid/tuned plate amplification for the RF receive amplfier and the transmit driver. Band switch does not have detents, 14 1 mhz bands. 1/IERC 6025 and 1/IERC 5020. Power required 200 VDC, -36 Vdc and 6.3 vac. An excellent basis for QRP set or experimentation. 6.3x6.5x6.7, 5 lbs sh. With schematic and info. #RFA-165, $19.95; 2 for $35

5 MHz Standard

FREQUENCY STANDARD MODULE from R-1051* and RT-618* radios; usable as replacement or adapt to other need where standard is required. Crystal oven with 5 MHz crystal provides 5 MHz sinewave output (approx 1.8V) plus possible non-sine outputs dual 500 KHz, 1 & 10 MHz. Designed stability: 1 part in l0 / day. Requires 18-24 VDC input. 4.4x3x4.5, 2 lbs. used crystal only is checked, other outputs may need repair, #6625-078-4718, $20.00 w/ schematic

455 Khz BFO

PERMEABILITY-TUNED 455 KHz BFO COIL from R-392 receiver. Originally used with 5-55 pf variable capacitor but fixed cap may be substituted. Oscillation without parallel capacitor: 452-480 KHz. Good basis for BFO for any receiver with 450-465 KHz IF; w/ schematic. 3.3"Lx 1.5" dia, 1 lb. #BFO-T602/R392, USED, $14.95

RF Exciter

RF EXCITER MODULE from1980's HF transceiver; mixes 500 Khz USB signal with synthesized frequency to produce and amplify modulated RF. Synthesizer (not available) supplied 74.5/75.5 (LSB/USB) and 77-105 Mhz depending on desired output frequency; RF output is low level. Requires +5, +12, -12, +28 VDC; with pinout. 1x7.8 x3.3, 2 lbs. #RF-EXC-1512, unused, no info, $25.

RF-550 Modules

Harris RF-550 HF receiver & RF-131 exciter modules ; 4.1x2.1 x5.9, 2 lbs sh. USED, not tested:

#A2A8/RF550 High Band Phase Lock Loop. $33.00

#A2A14/RF550 Low Band Phase Lock Loop, $32.95

SCHEMATIC packets, #SCH-(specify #), $7.50 ea w/module purchase.

ARC-5 Parts

SCR-274/ARC-5 COMMAND SET replacement parts:

#7277	6-9.1 MC	1st IF,	$5.00
#7279	"	" 3rd IF,	$5.00
#5856	"	" oscillator	$5.00
#6234	"	" RF sect.	$9.00

#7249 5.3-7 MC BC-458/T-21 xmitter PA coil, used $6
#6032 6-9.1 MC BC-459/T-22 xmitter oscillator coil $4

PRC-70 Front Panel

Frequency selector assembly module from the PRC-70 transceiver. 2.7x9x3.9, 4 lbs sh., #FS-PRC-70, Reconditioned, $125.00

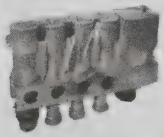
Infrared Device

INFRARED RECEIVER/DEMODULATOR as used in televisions and VCRs for remote control; has infrared detector and an IC for signal processing. Requires 5 VDC; 0.7x0.6x0.6, 1 lb sh. #IFRD-TV, Unused, $1.95 each; 7 for $10.00

135 MHz Tunable Cavity

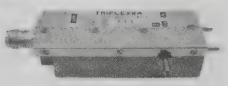
118 - 135 Mhz Tunable Cavity. This is a large three section cavity for use in the range 118 to 135 MHZ. No specifications available. Those of you who know about cavities could probably modify it for other frequency ranges. This unit has stepper motor and encoder on each section. Bodine Hysync DC Stepping Motor 23X1BEHD Caltech Corp Bit encoder 8 bit Absolute 33X121. No info on circuit to use these motors, but you can manually tune the cavities or design your own control circuits. 8.3x26.5x42.9, 70 lbs sh. #TC-135, Used excellent condition, $100.00

900-1100 MHz Cavity



TRANSMITTER TRIPLER / PRESELECTOR CAVITY MODULE from TACAN system in 900-1100 MHz range. Consists of preselector and four silver-plated cavities originally gang-tuned using ball-chain drive (not available) 10x7.5x2, 7 lbs sh. #4-CAV-93, used, $49.50

Triplexer



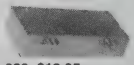
TRIPLEXER from cellular application by Fuji Electrochemical Co. #EF-T02, Frequencies are as follows - Transmit: 835MHz, Receive: 880MHz, Lo: 784.36MHz. Has female push-on SMA connections for Transmit, Receive, and Lo and a female TNC connection for Antenna. Cast aluminum housing with a removable cover. o/a 4.3x1.5x0.8, 2 lbs sh. Appears to be unused, #EF-T02, $4.00

850-895 MHz Modules

Modules from digital air to ground phone system. Receive frequency was approx 850 MHz and transmit 895 MHz. Removed from equipment-Excellent:

DITCOM MICROWAVE DF-2575 CIRCULATOR for 850-895 Mhz; 500 watts CW max, 3 KW peak. Isolation 20 DB min; insertion loss 0.3 db max. VSWR 1.25:1. Two SMA, one N conn; 1.4x1.7x1.3, 1 lb. #DF-2575, $15.00

FERROCOM 9K15-S CIRCULATOR, 840-900 MHz; T-shape SMA-N-SMA conn. No further info; 1.9x1.9x1. #9K15-S, $14.95



MILCOM 2-WAY COMBINER for 800 MHz, 2- SMA female & 1- male connections; 1.8x2.8x2, 2 lbs. #240-089, $19.95

800-900 MHz Modules

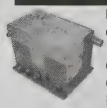
MODULES & COMPONENTS from airline phone system operating in the 800 to 900 MHz range:

#IFPC COMMON module has two receiver input and two transmitter output sections. Has parts two each Motorola filter 0850E05140 and 0895E05141, M/A- COM 7N526-6016 circulator in one section. Also 47.5 MHz local oscillator, 5 MHz piezo osc and IC's N80C169KB 16 MHz CPU, 27C256-20 32Kx8 EPROM, 3/84256-10L 256Kx4 RAM & related IC's. Requires +28, +12, -12 V; 11x6.5x3.2, 7 lbs sh. #IFPC, $20.00

#IFPC-T/R MODULE, stripline receiver RF/IF and low power xmitter boards plus oscillator/AGC board each in separate cavities. Components S80C652-1 MPU, 2/84256A-10 RAM, 27C256JL E-PROM, two Sony 20102A D/A CONV, etc. Requires +12, -12 +5 VDC; 11x6.5x1.5, 5 lb. #IFPC-T/R, $15.00

#AFF-PS MODULE, powered both above modules; has switching supplies Calex #24S12 (24 VDC in to 12 VDC 1.7 A out) and #12S5 (12 VDC in to 5 V 400 MA out); two RO Assoc 220-400 VDC input uVERTERs with one 28 VDC 10 A out and other 12 VDC 10 A out; and Vicor DC-DC Converter 250 VDC 35 W in to 5 VDC 25 W out. Also flat heatsinks, capacitors, etc. 11x6.5x3.3, 7 lb. #AFF-PS, $10.00

Microwave Bricks



Microwave PLL Oscillators, used good condition. Shipping weight is 3 lbs.

CTI #5328-2, 4800-5300MHz, $59.50
CTI #P13100, 1042.5MHz, $49.50
KarKar #PLC33-05, 5925-6355MHz, $59.50
FreqWest #MS-540XELT-147, 6140-6355MHz, $59.50
CTI #A1419, 12.859-13.385MHz, $79.50

Wavemeters

p/o AM-1956/ GRC-50 Rx/Tx 1350.5-1849.5 MHz FM oscillators; cal book for tuning CHN #, MAIN TUNE, OUT FREQ, & REC OSC. BNC connections; 3x3x9, 5 lbs sh. #WAVE-1956, Used, $17.95

1700-2600 MHz WAVEMETER, 20-turn vernier tunes in increments of 1. BNC connections; 1N21 diode output. On 3.5"W bracket; o/a 4.8"Hx2", 2 lbs sh. #SMD-302123, used, $24.95

Bird Power Monitor

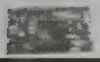
BIRD 4162D RF POWER MONITOR, rated 220-405 MHz 40 W. Measures incident and reflected power; VSWR 1.1:1 max. Usable over 145-500 MHz. Output 100 ua @ 5K ohm. RF connectors; output C, input BNC. DB-9 for DC outputs. 1.8x4x1, 1 lb sh. #4162D, NEW, $19.95

MANY ITEMS NOT LISTED - TELL US YOUR NEEDS

SWR Indicator Circuit

STANDING-WAVE RATIO INDICATOR CIRCUIT, assemble a SWR meter using this 1.8" square 0-10 scale (FS=2 ma) meter with filters, rectifiers & modified Schering bridge. One pair of bridge arms is resistive, the other capacitive. Circuit is balanced when antenna is tuned to 52 ohms resistive resulting in "0" reading on meter. Bridge: 2.5x 2.3x1, 2 lbs sh. #M701/CU-991, Used, w/info, $8.95

SWR / Discriminator pull out from AM-3349/GRC-106 Amplifier which covers 2-30 MHz at 200 Watt AM and 400 Watt PEP. Has two R/A mini BNC connections and a 15 pin DB connector with 15 pin mating connector. 3.2x2.6x2.2, 2 lb. w/ schematic. #SWR-3349, $10.00



SWR BOARD for HyGain radio; no further info. #PTSR006AOX, $1.00

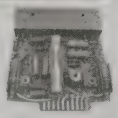
QRP Circuit Boards

SHORT-WAVE CW EXCITER/ TRANSMITTER by Ryan Communications; tiny 2"x4" high quality circuit boards cover active segments of ham radio low band frequencies @ 1.25 W CCS from 12 VDC power input into 50 ohms resistive. Output increases from 0.75 W-2.5 W as input varied from 10-16 VDC. RF Harmonics > 30 DB. Has 2N3019 power amp transistor and double Pi-net. Provision for HC-6 -33 xtal; norm-open contact-closure required for output. #SW-2, 1.8-2.0 MHz, $32; #SW-4, 3.5-4 MHz, $26; #SW-7, 7-7.5 MHz, $22; #SW-10, 10-10.6MHz, $22; #SW-14, 14-14.7MHz,$22 #SW-10, 18-18.9MHz, $25; #SW-14, 21-21.9MHz,$29

Noise Activated Switch

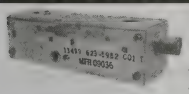
NOISE-ACTIVATED SWITCH with sensitivity adjust and mic; 6 VDC input, 2"x2". #54-91, $1.25 ea

S-Line Mechanical Filter

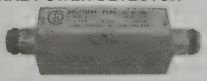


Circuit Board with #526-9310-009 mechanical filter model F455Q3. This "Y" style filter will fit S-Line equipment. 100K ohm in/out impedance. 3.5dB bw is 18kc, 70dB bw is 70kc. IF frequency of the filter is 455KHz. The circuit board also has two 5636 sub-mini tubes and various resistors and capacitors. No further info on circuit board. 3.9x3.5x0.8, 2 lbs sh. #CB-MECH, Used, $20.00 each; 4 for $60.00

Directional Coupler

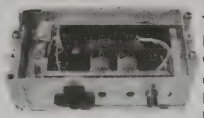


Rockwell Directional Coupler for the AN/GRC-171B 20 watt, 200-400 MHz transceiver. SMA connector for RF input. RF output uses BNC connector. NOS# 5985-00-588-5285, 4.8 x 1.3 x 1.3, 1 lbs sh. #ROCK-DIR, $25.00



225-400 MHz DIRECTIONAL POWER DETECTOR used in AM-6155 UHF power amplifier. Rated 65 watts forward; 15 watts reversed. Forward/ reversed DC output proportional to output/mismatch; sub-mini connectors provided. "N" RF connections; 4.5x1x1.3, 1#. Coaxial Dynamics #3023, Used, $18.00

Crystal Oscillator



TRANSISTORIZED CRYSTAL OSCILLATOR and BUFFER, 56 to 99 Mhz with 75 °C temperature controlled oven. Requires 5th overtone HC-6 (20 pf) crystal (not supplied). Has external oscillator input plus tuning meter & oven output. Requires 12-18 VDC regulated for oscillator; 22-39 VDC 1 amp for heater. W/BNC and SMA RF connections; DEC-9P plug for power. Part of GRT-21/22 xmitters. 6.5x2x3.3, 3 lb #OSC-8004290G1, used with schematic $9.95

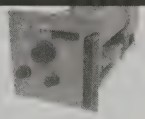
Collins Modules

Collins 250 Khz IF assembly from ARC-38 transceiver. Has mechanical filters. F250A65 and F250Z4. Two 250Khz IF transformers. Tubes 5814, 3/5749, 5726. 3 lbs sh. #IF-ARC38, Used, $29.95

250Khz Crystal Oscillator w/oven. 2/5749 tubes. #CO-250, Used, $8.95

618S 250Khz IF Amplifier F250A67 250 khz mechanical filter 2/5726, 3/5749 3 lbs sh. #IFA-618S, Used, $16.00

UHF Power Amp



Power Amplifier Plug-in for AM-6155 amplifier which is conservatively rated for 50 watts. Plug-in includes valuable parts such as the main cavity, low pass filter, directional power detector, and tetrode tube Eimac X651Z/8930 or Amperex DX393. 18.3x7x6.8, 13 lbs sh. #PA-6155, Used, $135.00

HV Supply from AM-6154 or AM-6155 amplifier. Loaded with GREAT parts! 1752V at 270ma transformer, 8HY 300ma choke, 100K ohm 95 watt resistor, 2x5mfd 3KVDC capacitor, & rectifier circuits card. Has broken connectors. 15x5.7x6.3, 32 lbs sh. #HV-6155, Used, $90.00

Bias Supply from AM-6154 or AM-6155 amplifier. 7.1x5x4, 7 lbs sh. #BS-6155, Used, $30.00

AC - AC Inverter from AM-6154 or AM-6155, 7.1x5x4, 7 lbs sh. #INV-6155, $32.00

Permeability Tuner

Concord Permeability Tuner for 5 tube superhet with schematic. Used the following tubes (not included) 12SA7 12SK7 12SQ7, 50L6, 35Z5. Use to restore your old radio or to make your own. 3.9x2.3x2.2, 2 lbs sh., #99-3584, New Old Stock, $14.95

Discriminator

PHASE & LOAD DISCRIMINATOR determines if load is <, >, or = to 52 ohms; also if R, C, or L. 3rd output relative to antenna current; withschematic. 2x3 x3, 2 lbs. #T201/180L, $9.00

Hardware

HARDWARE ASSORTMENT of washers, screws, nuts, rivets, terminals; 2 lbs sh. #HWA-2, $2.00

DUAL BINDING POST RED/BLACK. For standard banana plugs. Distance between connectors is 0.79". Drill hole is 0.15" (x2). 1.5" x 1.3". #CM14R, New, $1.29; 3 for $3.49

As above but gold plated contacts. #CM15R, $1.99; 2 for $3.79

BINDING POST for Banana plug. Length is 1.7". Drill hole is 0.3". Black color, New, #CM3B, 2 for $0.99; 5 for $1.99

BANANA PLUG SCREW CONNECTION. Solder connections. Length is 1.7". New. Black color, #CM9B, 5 for $1.00; 10 for $1.79 Red color, #CM9R, 5 for $1.00; 10 for $1.79

As above but gold plated. Black color, #CM10B, 3 for $0.99; 7 for $1.99 Red color, #CM10R, 3 for $0.99; 7 for $1.99

FLEXIBLE COUPLING from T-368, 1.3"L accordian style; connects 1/4" to 1/2" shafts, #BFX-CPL-3-5, $7.50

HEX SPACERS

male-female thread or female-female (f-f) : #HEX-(thread)-(length)

Length	per 20	per 100
4-40 threads 1/4" dia metal		
0.75"	$4.25	$12.50
1.375	$5.50	17.00
6-32 threads 1/4" dia metal		
0.375	$3.00	$10.00
0.625	$3.50	12.00
0.75	$3.75	12.50
1.5 (f-f)	$4.25	14.50
8-32 threads 7/16" dia:		
3.0	$7.00	21.00
1/4"-28 threads 7/8" dia:		
2.87	4/$3.50	20/$14

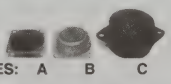
TERMINAL STRIP with 28 silver-plated 0.8"Hx0.4" dia spring push-down binding posts on 15.3x3.9 x0.4" thick black phenolic board. Phenolic may have minor chips; 4 lbs sh. #TM-184-PT, Used, $20.00

Older version of above with 0.6" dia white-brass screw-down terminals, #TM-184-ST, used, $22.00

AUGAT single 8-terminal PC mount: 2"Lx0.6"W: #4PCV-08, 10/$7.50

VARIABLE TERMINAL STRIPS, pairs removable to decrease or increase length. #GE-V12-TERM,12 terminal pair 1.3Hx8.3Lx2"W, $2.50 #BUC-V8-TERM, 8 terminal pairs 1.3"Hx3.9"Lx1.1"W, $2

SHOCK MOUNTS you bolt to equipment.



STYLES: A B C

#SM-4A,	4 #,	$.45	#SM-6A,	6#,	$.50
-9A,	9#,	$.60	-12A,	12#,	$.75
-12B,	12#	$.85	-15B,	15#,	$1.00
			-50C,	50#	$1.50

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Old Radio Books

RADIO FOR THE MILLIONS, From the pages of World War II vintage issues of Popular Science Magazine came this reprint of well-illustrated electronics articles on everything from phonographs and shortwave radios to cabinet design and radio servicing. Everyone of the dozens of articles is illustrated with sharp photographs, schematic diagrams, and parts lists. 192 pp #BK-MILL, $11.95

IMPOVERISHED RADIO EXPERIMENTER VOLUME 1, Contains tricks, tips, and secrets to help the builder of simple radios and electrical gear achieve high performance at minimal cost. Also: vacuum tube substitutions; inexpensive tube power supplies; grid leak detectors; regenerative receivers and more. 48 pp; #BK-IMP-1, $5.95

IMPOVERISHED RADIO EXPERIMENTER VOLUME 2. Contains information on builiding a grid dip oscillator, a shortwave converter, a slow motion dial drive, space-wound coils and more. 48 pp #BK-IMP-2, $5.95

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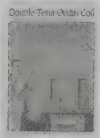

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R-442 repro 30.00
R-484/APR-14 repro 22.
R-648/ARR-41 repro 17.
R-744/PR repro 12.00
R-836/ARN-59 repro 15.
R-901/GR repro 12.00
R-1051B repro 45.00
R-1170/R-962/ARR-52 repro 15.00
R-1490/GRR-17 repro 40.
R-1518/URR-71 repro 22.
R2174 (Racal) repro 45.
RA-34A,B,C,D,E,F,G,H,J repro 17.00
RD-173 repro 12.00
RD-365 repro 12.00
RDG repro 20.00
RT-10 repro 17.00
RT-66-67-68 original 10.00
RT-70 original 10.00
RT-246 repro 35.00
RT-524 repro 40.00
RT-695/PRC-41 repro 20.
RU-18/19 repro 12.00
SB-22 O.I. repro 15.00
SB-86/P repro 12.00
SCR-193D,G,H,J,K,KB, KW,L,M,P,Q,R,S,T,U, repro 12.00
SCR-211 covers most letters repro, 17.00
SCR-245 (BC-223) repro 12.00
SG-376 repro 15.00
SG-677 repro 15.00
SG-823 repro 15.00
SP-600-JX repro 10.00
SRR-11,12,13,13A / FRR11,12,13 repro 65.
SX-28 repro 10.00
T-195/GRC-19 Maintenace original 25.
T-195,A,B DS, GS, & Depot Maintenance repro 25.00
T-278-416 original 7.50
T-368 O.I. repro 8.50
T-368/TN-339 repro 17.
T-827B+E repro 45.00
TA-1 repro 10.00
TA-312 repro 8.50
TCS-12 repro 17.00
TCS-12 complete repro 17.00
TELETYPEWRITER Index, Navelex 0967-LP-104-0010; Date Nov. 61 original 20.00
TP-3 repro 15.00
TS-147 specify letter repro 17.00
TS-352/ME-9 repro 8.50
TS-382 repro 10.00
TS-403/URM-61 repro 17.
TS-418 repro 20.00
TS-510/USM-44 repro 15.
TS-585 repro 8.50
TS-671 repro 15.00
TS-683 original 17.00
TS-710 original 17.00
TS-723 repro 12.00
TS-1325 , TS-1324 repro 20.00
TSQ-54A repro 17.00
TV-2,A,B,C repro 12.00
TV- 7,A,B,D repro 12.00
TV-10A,D repro 12.00
ZM-11 repro 12.00
ZM-30/URM-90 repro 15.

+ + + + + + + + + +

COLLINS - 30L1, KWM-2A, 516F2, etc mil-repro, $30.00

- - - - - - - - - -

Hallicrafters S-27 BC-787B,C repro 12.00
S-37 repro 15.00

- - - - - - - - - -

TEKTRONIX repros:
$8.50 ea: G, H, W,
$15. ea: 1A1, 1A2, 1A5
$17. ea: 1A4, 535A, 545A 545B 547 585A 453 $25. 475 $30.

***MANY* other manuals available!**
Visit our website for a much more complete listing or tell us your needs.

SEE FAIRRADIO.COM/MANUAL.HTM FOR MORE MANUALS

Miniature Lamps

Type#	5 pack	10 pack
4	$1.50	$2.50
5ES8	$1.50	$2.50
6ES	$1.50	$2.50
7C7 130v	$1.50	$2.50
10S6/13 230v	$2	$3.00
10S6/13 250v	$2	$3.00
10S6/14 120v	$2	$3.00
12	$4.50	$7.00
12RC	$5.50	$9.00
13	$1.50	$2.50
14	$1.50	$2.50
15T6 130v	$2	$3.00
15T8C 120v	$2	$3.00
24ES	$1.50	$2.50
24ESB	$2.75	$4.50
24X	$3.25	$5.50
24-68M	$1.50	$2.50
30 wheat	$1.50	$2.50
40	$1.50	$2.50
40S11 130v	$2	$3.00
43	$1.50	$2.50
LM44	$1.50	$2.50
45	$1.50	$2.50
46	$1.50	$2.50
47	$2.50	$4.00
48	$1.50	$2.50
48ESB	$3.00	$5.00
48H	$1.50	$2.50
49	$1.50	$2.50
50	$1.50	$2.50
51	$1.50	$2.50
57	$1.50	$2.50
81	$3.50ea	$15
93	$1.50	$25.00
130	$1.80	$2.50
161	$1.50	$3.00
219	$2.50	$2.50
222	$1.50	$4.00
233	$2.50	$2.50
239	$1.50	$4.50
245	$2.00	$2.50
267	$1.50	$3.50
306	$2.00	$2.50
313	$1.50	$3.50
327	$1.50	$2.50
330	$1.80	$2.50
331	$6.00	$3.00
372	$1.50	$10.00

Type#	5 pack	10 pack
382	$2.50	$4.50
387	$1.50	$2.50
388	$1.50	$2.50
398	$1.50	$2.50
480	$1.50	$2.50
502	$1.50	$2.50
511	$1.50	$2.50
562	$3.25	$5.50
755	$1.50	$2.50
756	$1.50	$2.50
757	$1.50	$2.50
1156	$1.50	$2.50
1157	$1.50	$2.50
1251	$2.00	$3.50
1252	$2.00	$3.50
1356	$1.50	$2.50
1455	$1.50	$2.50
1490	$1.80	$3.00
1813	$1.50	$2.50
1814	$1.50	$2.50
1816	$1.50	$2.50
1819	$1.50	$2.50
1822	$1.80	$3.00
1828	$1.80	$3.00
1829	$1.50	$2.50
1843	$3.00	$5.00
1886	$1.50	$2.50
1891	$1.50	$2.50
1895	$1.50	$2.50
2187	$1.50	$2.50
7341	$2.75	$4.50
7349	$2.00	$3.50
7376	$1.50	$2.50
8462	$1.50	$2.50
8602	$1.50	$2.50
32173-0	$1.50	$2.50
NE16	$3ea	$14	$25.00
NE17	$3ea	$14	$25.00
NE45	$3ea	$14	$25.00
NE48	$5ea	$23	$42.00
PR2	$1.50	$2.50
PR5	$1.50	$2.50
PR7	$1.50	$2.50
PR8	$1.50	$2.50
PR10	$1.50	$2.50
PR12	$1.50	$2.50
PR13	$1.50	$2.50

Collector Bulbs

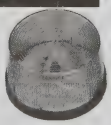
Unusual craft and projection lamp bulb: nice glass and simple but elegant filaments like old radio tubes. With mogul base; may or may not work:

EDISWAN PROJECTION, 6-8 A 200 W; 5.3X1.4" dia. #EDISWAN, $3.00

T-8 PROJECTION BULB, 200 W 3.4"H x 1" dia; GE #PH/200T8SC, $2.00

T-8 PROJECTION BULB, (CFC) 150W 120V, 3.4"H x 1" dia; GE #PH/150T8/70, $2.00

Strobe Lights



ELECTRONIC FLASHING LIGHT for alarm systems, discos, personal use, warning in case of danger, etc... Long-life xenon tube. Fully sealed and waterproof. Power output: 1W. Power supply: 12VDC. Current: 150mA. Flash rate : 120/min. Black ABS / acrylic cover, Dimensions : 2.8"(ÿ) x 2.5". New, $8.99 ea. Available in the following colors: Amber #HAA40A; Blue #HAA40B; Green #HAA40G; Red #HAA40R; Clear #HAA40W

ELECTRONIC FLASHING LIGHT. Flat lens. Requires 12VDC. Input current 85mA/1W. Flash rate 1.5Hz. Screw mounting. Suitable for indoors and outdoors. 3.9" x 3.1". New. $18.99 each
Amber, #HAA100A; Blue, #HAA100B;
Red, #HAA100R; Clear, #HAA100W;

Flash Bulb

Giant Mazda Type 75 magnesium foil flash bulb. Medium screw base. Used in WW2 for aerial night photography.

#FLASH-W, Unused with poor wrapper, $75

#FLASH-NW, Unused no wrapper, $60

Pilot Lights & Indicators

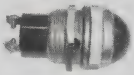
TINY 50V NEON INDICATOR, 1-3/8" long x 3/8" dia; NEW, #3496 clear lens w/ "7" 3/$1.00

SUB-MINIATURE NEON PILOT LIGHT with 5/16" dia clear jewel. Base is receptacle for three 1/16" pins in triangle pattern. Mounts in 3/8" dia hole. O/a 1.4" L; includes neon bulb.
#PIL007, $.35 each: 4 for $1.00

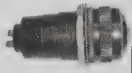
DIMMER LIGHT w/ NE-51 bulb; 1/2" dia clear jewel. Fits 5/8" dia hole; o/a 3" L. #PIL-C433, used. $.75 ea

LAMP HOLDERS for 327 laps; fit 1/2" hole. Flat WHITE numbered lenses; specify: " ,4,5,6,7,8,9" or YELLOW "MAX". #0934, $0.55

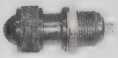
Pilot light w/ 327 lamp; white lens. Used #FLW-327, $1.35



Dialco Pilot Light for T6 1/2 screw base. Red lens. Marked 75 watt, 250 volt. Unused, #PL-T6.5-S, $3



Dialco Pilot Light with faceted lens for T6 1/2 double contact bayonet base. Amber lens. Marked 75 watt, 250 volt. Unused, #PL-T6.5-DC, $2.50



Pilot Light for T1 3/4 midget flange base 327 bulbs etc. Red lens. Unused,
#PL-T1.8, $3.00 each; 10/$25.00

Pilot Light for T3 1/4 miniature bayonet base. Amber lens with dimmer. Unused, #PL-T3.3-B, $3.00

Vibrators

Each of the vibrators listed below are $5.75 each.

Part #	Pins	Volts	Part #	Pins	Volts
V6648	4	6	3334	7	6
VB-9-C	4	?	JV0022	7	24
G534	5	12	M1503S	7	24
VS-3	6	6	V6778	7	24
M3356C	6	24	V6675	7	?
R111	6	?	M418753	Octal	6
V6702	7	2	VB-13-A	9	12

Cathode Ray Tubes

CRTs are used no burns unless noted "-UN" = Unused
Tektronix CRT'S used no burns. $50.00 each
Others available - tell us your needs.

3ACP1 15.00	4QP31 35.00	7ABP7 15.00
3BP1A-U 15	5ABP1 20.00	7BAP7 10.00
3BP1A-UN 30	5ADP7 30.00	7BP7 9.00
3DP1 6.00	5AMP2 25.00	7BP12 10.00
3DP1S-2 20.	5AQP1 25.00	7CP7 10.00
3HP7 4.00	5BDP7 nos 15.	10KP7 10.00
3JP1 10.00	5BHP2 20.00	10UP14B 10.00
3SP1 20.00	5CP1 10.00	902 nos 25.00
3UP1 20.00	5FP7-UN 20.	GL-4592 10.00
4MP1 20.00	5FPZ5 15.00	SMD460260-UN 10
	5JP1 12.00	Z4516P11-UN 10

2" CRT Shield for 2BP1 etc. #SH-CRT-2, $12.00
3" CRT Shield for 3RP1 etc. #SH-CRT-3, $15.00
5" CRT Shield for 5ADB7 etc. #SH-CRT-5, $18.00

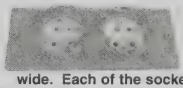
#154-0672-05 #T5810-31 (154-0354-00)
#T0540-2 (154-0098-00) #T5471-31-2 (154-0568-00)

Tube Sockets

6-pin ceramic ring mt, #SK-6, used, $2.95
Mini 7- pin mini, Fiber Wafer, #SK-7MF, new, $.30
Mini 7- pin mini, bakelite, #SK-7M, unused, $.35
Mini 7- pin mini, moulded push-in w/ ridge, #SK-7MP-R, used, $.30
Mini 7- pin mini, moulded push-in no ridge, #SK-7MP-NR, used, $.25
Mini 7-pin mini with collar for shield, #SK-7C, new, $.60
Mini 7-pin ceramic w/ collar f/shield, #SK-7MC, new, $.80
7 pin PC mount brown, unused, $1.20
Octal PC mount brown, unused, $1.35
Octal bakelite, ring, #SK-OCT-R, used, $.45
Octal Fiber Wafer, #SK-OCT-F, unused, $.30
9 pin PC mount black, unused, $1.25
9 pin PC mount brown, unused, $1.30
Mini 9-pin ceramic w/ collar f/shield, #SK-9M, used, $3.95
SUB-MINI, round, long-lead, #SK-MIN, unused, $.85
Acorn Flat Ceramic Socket, #SK-ACORN, used, $5
Septar Ceramic Square Socket, #SK-SEPT, Used, $7

4X150 Dual Socket Assembly from the T-195, two sockets on 4.3" x 2.9" chassis with 1.1" H bakelite chimneys;
#4X150/T195, used: $19.95; 2 for $32.00

Cavity Socket Assembly for 3CX100A5/2C39 series tubes. Has female BNC and female TNC connections. 3.3x1.9x5.3, 4 lbs shipping. #3CX-BT, Used nice condition, $10.00



Two Johnson #244 Ceramic Sockets mounted on an aluminum plate 3" deep x 7.5" wide. Each of the sockets has a 1 7/8" diameter removable mounting clamp. Works with C6M, 576 tubes etc. 3 lbs sh. #DUAL-244, Used, $12.00

Tube Shields & Etc...

For most 7-/9- pin mini tubes
#TSH-(specify tube #) used $.40 each
#TS103U02 SHIELD 12AX7-size, $.60 each

BLACK IERC-Type SHIELDS, used:
#TR5015 (6AK5), $.85; #TR6015 (5842) $.95

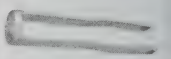
--- OCTAL TUBE SAVER ---

Save those expensive octal tubes that have broken guide pins. Replace the broken guide pin by slipping this plastic piece over the proper pins. High strength/temperature plastic. Reuseable. .5"Hx1.2" dia, #KY-1, New $1.50 10/$12.00

TUBE TEST ADAPTERS for TV-7, used:

#E104 for sub-mini tubes, $5.00
#E105 for septar 829/832, $7.00
#E107 for 2C39, $7.00

OCTAL TUBE PULLER

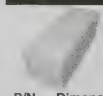


Pull out octal tubes in those hard to reach areas. Stands around 6 3/4" tall. 1 lbs sh. #TP-7, $6.00

TUBE PIN STRAIGHTENER

for Mini 9 pin tubes. Stainless steel straightening area for years of use. 2 mounting holes 1 5/8" center to center. Unused, #STR-9, $5.95

Tube Boxes



Quality plain white boxes ideal for storing tubes or other components. Compare our price to the competition and save! No divider insert.

P/N	Dimensions	per 10	per 25	per 100	per 1000
CB6W	1.5x1x3	$1.55	$3.20	$10.95	$85.95
CB3W	1.5x1.5x4	$1.85	$3.80	$12.95	$99.95
SB16W	1.75x1.75x6	$2.10	$4.60	$14.95	$125.00
SB17W	2.5x2.5x6	$2.75	$5.95	$18.95	$155.00

MANY ITEMS NOT LISTED - TELL US YOUR NEEDS

$4.50 Unused / $2.50 Used - Vacuum Tubes

- *MANY* other tubes available. Visit our website for a much more complete listing or tell us your needs.

- If you specify unused and unused is sold-out, we will ship used checked, unless you specify "unused only".

- Many tube types available in glass and metal. Please specify if you have a preference.

The tubes listed below are $4.50 unused and $2.50 used.

0A2 0A3 0C3 0D3 OZ4 1A5 1B3 1B4 1C5 1C6
1E7 1J3 1L4 1N6 1P5 1R4 1R5 1S2 1S4 1S5 1T5
1U4 1X2 1V2 1LA4 1LC5 1LC6 1LD5 1LE3 1LN5

3B4 3D6 3Q4 3Q5 3S4

5A6 5AN8 5J6 5U8 5T8 5V6 5W4

6A6 6B8 6C4 6C6 6F7 6F8 6G6 6H6 6J4 6J5
6J6 6J7 6K4 6K6 6L7 6N7 6R7 6S8 6T4 6T7 6T8
6U6 6U8 6V3 6V7 6W4 6X4 6X5 6X8 6Z4

6AB4 6AB7 6AC7 6AF3 6AF4 6AF9 6AF11
6AG5 6AG7 6AH4 6AH6 6AK5 6AK6 6AL5
6AN5 6AN8 6AQ5 6AQ7 6AR6 6AS5 6AS6
6AU4 6AU5 6AU6 6AU7 6AV5 6AV6 6AX4 6AY3
6BA11 6BC5 6BC8 6BD5 6BD11 6BE6 6BH6
6BJ3 6BK5 6BK7 6BN4 6BN6 6BQ6 6BQ7
6BU8 6BX6 6BZ7 6CB5 6CB6 6CD6 6CF6 6CM7
6CS6 6CS7 6CU5 6CU8 6CY5 6CY7 6DA4 6DE6
6DG6 6EA5 6EB8 6EH4 6ES5 6GF7 6GH8
6GJ7 6HB7 6HS8 6JT8 6JZ8 6LE8 6LU8 6MN8
6SD7 6SF7 6SH7 6SK7 6SQ7 6SR7

7A4 7A5 7A6 7A7 7A8 7B4 7B8 7C4 7C5 7C7
7E6 7E7 7J7 7K7 7L7 7Q7 7R7 7S7 7T7 7V7 7W7
7X6 7X7 7Y4 7Z4 7AD7 7AG7 7AH7 7AK7 7AU7

12A6 12A8 12C8 12B4 12D4 12H6 12J5 12J7 12K7
12K8 12L6 12V6 12W6 12X4 12Z3 12AC6 12AH7
12AX4 12AZ7 12BA7 12BF6 12CA5 12SF5 12SH7
12SJ7 12SK7 12SL7 12SR7 12SW7 12SY7

14A5 14B8 14C5 14C7 14E6 14N7 14R7 14W7

17D4 17AX4 17BF11 17GW6 19T8 19AU4 19X8
21GY5 21JV6 25L6 25W4 25Z5 25Z6 25BQ6
25DN6 32L7 35A5 35B5 35C5 35L6 35Z3 35Z4
45Z5 50X6 50Y6 70L7 117Z4 117Z3 117Z6

34 35/51 36 38 39/44 43 55 57 58 77 78 79 89
5651 5654 5670 5725 5726 5727 5750 5963 5965

6005 6136 6186 6189 6888

7056 7058 7167

9001 9002 9003 9004 9006

Unused Tubes

UNUSED in original military or commercial boxes:

1B35	$39.00
1B36	$39.00
2C43	$23.00
2E26 RCA	$6.00
2K25 Raytheon,	$36.
3C23	$32.00
4D32 Raytheon,	$28.
10/$240.	32/$700.
6AJ5 Tungsol,	$3.50
6AZ8 ECG	$6.95
6B4GA, Sylvania	$33.00
6CB6A RCA,	$3.00
6CG7	$9.00
6DC6 various,	$6.50
6DK6 GE,	$3.00
6DQ6,	$7.00
6E5,	$17.00
6SG7	$3.00
6SH7	$3.00
6SJ7 Metal	$7.00
6SL7	$9.00
12AT7WC	$8.50
12BE6 GE,	$3.25
12DQ6,	$9.00
12SN7	$5.50
24A or 27	$9.50 each
30,	$16.50
53	$6.50
717A	$15.00
84	$6.50
811A Cetron,	$35.00
884 or 885	$7.50 each
954-955 acorn,	$3.95
957, 958, 959,	
acorn,	$5.95

1619	$7.00
1626	$3.95 10/$29.50
1629 "eye" tube,	$11.00
5718	$7.00
5719	$10.00
5755 Raytheon,	
$2.95 10/$25 100/$195	
5763 various,	$9.95
5824,	$13.50
5998A Syl,	$16.00
6080WB GE,	$8.00
6146W GE,	$22.00
6159	$17.00
6189W	$7.75
6336B Cetron,	$45.00
6687	$6.75
6883B/8552 ECG,	$15.00
6888 Sylvania,	$14.95
6922 ECG, $6.95 10/$59.50	
7189A Int. SvcMstr	$19.50
7193	$6.25
7308 Amperex,	$14.00
7360 ECG,	$29.95
- - - *NUVISTORS* - - -	
7586	$27.00
7587	$32.00
8056	$18.00
8058	$35.00
8552/6883B ECG,	$15.00
26 SERIES TUBES	
Used $3; 26A6,26A7,26E6	
Unused $5; 26D6, 26E6	

Pull-out Sale

"pulled-out" of equipment– NOT TESTED/ NOT GUARANTEED! (One tube type per quantity!):

10 for $8.00; 100 for $50.00
6AC7 6AG5 6AH6 6AK5 6AL5 6AS6 6AU6
6BA6 6CB6 6J4 6J6 6SH7 6W4GT 5963

OTHER "PULL-OUTS"
10 for $10.00. 100 for $75:
6AQ5 6U8 6005

Sovtek Tubes

Electro-Harmonix

A premium quality tube mfg by Sovtek. "EH" = Electro Harmonix

Type	Price	10-24	25+	Mtch Pr
6L6EH	14.95	13.95	12.95	33.95
6V6EH	8.50	7.95	7.50	21.00
EL34EH	11.50	10.95	9.95	27.00
12AX7EH	10.95	10.50	9.95	N/A
12AT7EH	9.95	9.50	8.95	N/A
12AU7EH	9.95	9.50	8.95	N/A
12AY7/6072EH	10.95	9.50	8.95	N/A

Other Sovtek tubes new:

Type	Price	10-24	25+
5AR4	11.95	10.95	9.50
5Y3GT	8.25	7.95	6.95
6BQ5/EL84	6.25	5.95	5.10
6CA7/EL34	11.75	11.20	9.95
6L6GB	8.75	8.25	7.35
6SL7	6.50	6.25	5.50
6SN7	7.50	7.25	6.25
12AX7WA	6.95	6.75	6.35
6550WE	22.50	21.60	20.00

KT66 $22.95 each; 10 to 24 pieces at $20.95 each; 25 and greater $19.95 each
$49.95 for matched pair; $99.90 for matched quad

KT88, $24.95 each; 10 to 24 pieces at $22.95 each; 25 and greater $20.95 each;
$53.95 for matched pair; $107.90 for matched quad

Used Tubes / Grab Boxes

USED-checked (US-mfg):
01A (ST), 13.95; 2E22, $10.00; 3E29, $9.00;
5U4GB, 5Z3, $4.75; 6AS7G, $6.00;
6JB6, 6LB6, $12.50; 6SL7WGT, $4.00;
6V6GTY, $7.00, 24A, or 27, $4.75;
26, 42, 75, $8.00; 45 ST, $28.00; 71A, $12.00;
80, 807, $7.00; 6080W, $4.25; 6146A, $7.75

GRAB BOX TUBE SALE

3 lbs of varying types of unchecked used or unused tubes. Randomly picked from our inventory of tubes of low demand. #TB-GB-3, $20.00

As above but 6 lbs. #TB-GB-6, $30.00

Power Amp Tubes

4CX350F/J 26VDC Power Tube. Has a maximum plate disipation of 350 watts. Fits the socket and chimney listed below. Removed from equipment, $65.00

4CX300A / 8167, JAN Eimac Unused, $45.00
4X150D, 26 V filament, used STT, $16.00
4X150G, coaxial type, used STT, $19.00

152TH Triode for modulators, oscillators, & amplifiers. 5/10 Volts at 12.5/6.25 amps. Large 4 pin base. Eimac/Eitel-McCullough mfg. Unused, $150.

8906 tube is also a ceramic metal planar tube. Filament voltage 6V; Max plate watts = 10; Max plate volts = 2500. Used checked, $60.00

7815 similar to 8906 but max plate volts is 3500, $55

7554 HIGH MU TRIODE. Heater-cathode, ceramic-metal, pencil type used as rf amplifier, oscillator, and multiplier in airborne equipment. Used STT, $29.50

Unusual Tubes

No markings but looks like some kind image or photomultiplier with 14-pin basing. 4.8"Hx 2.3" dia glass + two 1/2"L contact pins opposite each on tinted end of cylinder; 1"L glass extension from side. #XTUBE-98, $20.00

702B mfg by Sylvania. This unusual tube appears to be a special diode for UHF applications. Clear glass with gold plated rings. Great collectors piece! 1" dia x 2.3"ht., Unused, $15.

+ + + + + + + + +

JAN 705A RECTIFIER, 4-pin base; 5"Hx2.3" dia. used $4

GL-6044 oversize 6-pin w/ 4 tabs; 5.3"Hx2.3" dia. UNUSED, $5.00

C6M THYRATRON, 8.5"Hx2"dia Used, $4

Klystron / TWT

6116 REFLEX KLYSTRON METAL VACUUM TUBE, a rugged version of the 2K45. Requires 6.3V at 762 milliamps. Reflector voltage: -95 to -145. Frequency range: 8500-9660 MHz. Power output: 32 milliwatts. Output coupling: waveguide RG-52/U. Unused, $29.95

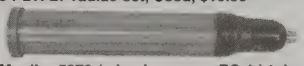
SRL-7H for 2160-2400 Mhz; 6.3 V filament, -1000 VDC beam V; reflector volts -1300 to -2000 V. Coarse & Fine Tune slugs, N-conn & octal base. 6.5"x 5.2"x4.5", 4 lb unused w/info, $49.50

VARIAN VA-98M/8901 KLYSTRON, 23.6 - 24.4 Ghz 100 mw CW; Eb=500 V @ 40 ma. 2.8"Lx 1"Hx1.3"D w/ 6"L wire leads; 2 lbs sh. NEW, $125.00 Filaments checked, but not guaranteed.

RCA 4012/A1157 TRAVELING WAVE TUBE, 2.0-4.0 GHz, 36 db min., 20 mw min. 15.5"LX3.5"Hx1.5"W. 4 lbs UNUSED, $40.00

Geiger Mueller Tubes

Geiger Mueller 5980 (also known as BS-2) Tube from the PDR-27 radiac set, Used, $19.50



Geiger Mueller 5979 (also known as BS-1) tube for PDR-27 radiac sets, Used, $29.50

Antique Globe Tubes

Tubes below are used-checked;

224/324, 235/51, $8.95;
227/327, 238/338, 239/44, $11.95;
226/326, $13.00; 80/280, $33.95; 245/345, $69.00;

SEE A MORE COMPLETE TUBE LISTING AT FAIRRADIO.COM/TUBES.HTM

Sonalert - *LOUD !!*

2 to 6VDC Sonalert mounted on a 2" x 2 3/16" aluminum panel with 4 mounting holes. This unit is very loud at 2VDC and almost intolerable at 6VDC. 2 lbs sh. #SONA-6, Used Excellent, $4.00

Sounding Device

MINI PIEZO SIREN 6-15Vdc / 140mA 107dB LEAD TYPE. Made from high impact ABS plastic. Dimensions : 1.5" x 1.7" x 2.2". 1 lb sh. Mounting holes: 0.87". #SV/PS1, $11.95

Faraday Horn

FARADAY 48 VDC 100 ma HORN, made for Bell Telephone; makes loud, penetrating sound w/ screw-driver volume adjust. Steel construction; recess mount. Front size 4x4x1.3 1.3" panel depth. 3 lbs #KS-12037L2, NEW, $5.95

LOUD BUZZER HORN as used in smoke alarms; 2" dia x1.3".
#41-81-6, 6VDC $1.25 ea; #41-81-12, 12VDC $1.35 ea

Alarm Bell

ADAPTABEL INDUSTRIAL ALARM BELL, 5.8" dia bell operates from 6 VDC 250 MA for non-fire use. Heavy metal cast construction with mount hardware; 3 lbs. Edwards #435-6C1, new, $9.95

Speakers

3 X 5 SPEAKER, 1 watt at 16 ohms with 1.8" dia magnet; 1 lb sh. NEW, #SPK-3-5, $1.35 ea; 10/$12; 100/$95

3 1/4" Square Speaker. 8 ohms rated at around 2 watts. 1 3/4" depth. 2 lbs sh. Unused, #SPK-3.25, $3.35

2 3/4" Round Speaker with no mounting holes. 45 ohms rated at around 1/2 a watt. 1.1" depth. 1 lb sh. #SPK-2.75, Unused, $2.00

7" Audio Tape

7" Professional Audio Tape by Ampex model 631. This is the 1.5 mil tape, 1200' of 1/4" tape. These reels of tape are excellent for DBX reels and others to decrease tape noise, consider by many as the standard for reel recording. These reels are truly the standard for audiophile recordings, and a must for the reel collector. 3 lbs sh. #TAPE-631, Unused, $3.25 each; 12 for $35.95; 24 for $60.00; 96 for $135.00

Audio Filter

AUDIO LOW PASS FILTER. No specs available, but output is good from 10 hz to the limit of the filter. The drop off is very quick. The circuit is passive and causes an approximate 50 % attenuation of the signal. The input impedance seems to be about 2400 ohms. 4.5 x 1.5 x .5,

7.5khz LPF #FO70975, $5.00
15Khz LPF #FO69215, $4.50

Misc Transformers

MODULATION TRANSFORMER Pri: 5500 ohm 235 ma or 2000 ohm 300 ma. Sec: 200 ohm 20ma 90 watts max. 3.1x3.5x2.9, 4 lbs. #677-0923, used, $8.00

"ISOLATION" TRANSFORMER pri 115V 60 Hz; sec 105 VAC 500ma 3.5x3.5x2.5, 6lbs. #45099037, $7.50

TY-84 Triad Utrad mobile power supply transformer. Designed for use with 12 volt DC transistor 2500 hz oscillator to produce 600 volts DC 200 Ma. With schematic. 2 lbs sh. #TY-84, Unused, $65.00

TRANSFORMER-POWER SUPPLY Pri: 2 x115 VAC 48-62 Hz. Sec: 570 VCT 200 MA, 25 VCT 1.2 amps, 6 V 8 A. On chassis w/sockets for two 26Z5 tubes; 20 lbs. #PS-R390A, used, $25.00

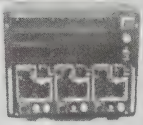
CHOKES

0.5 mHY 100A 0.9 ohm, 6.3x5.4x4.1, (C), 35 lbs, #CH-100, $45.00

1 mHY/5.0mHY 11A/1A swinging 6.8v-120cps .07 ohm 2x2.3x3, Sealed frame, 4 lb, #103-1MH-11A,$9.50

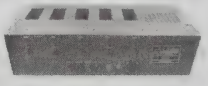
C-114 LOADING COIL, adds 88 mH inductance to field phone wire increasing effective range 125+%. Water tight case; 4 lbs sh. #C-114, Used, $10.00

Battery Charger



NI-CAD CHARGER PP-6241 SOLID-STATE BATTERY CHARGER for silver-zinc or nickel-cadmium types. Three independent charging units with out-puts 8-16-32 VDC or 0-36 VDC in 0.1 V steps; 1 or 2.25 amp charge. With cables CX11971, CX11972, and CX11973. Requires 115 VAC 45-440 Hz input. 11.5x 13.8x11, 46 lbs. w/ book. #PP-6241-U, Used, $39.50 #PP-6241-UN, Unused, $79.50

PP-7286/U Ni-Cad Battery Charger will charge 6, 12, 24, or 28 volt sealed Ni-Cad battery capable of either fitting in the five battery holders on the front panel or attached to cables connected to the five sets of plug-in-connectors (jacks) located beneath the battery holders. Unit originally designed for batteries BB-557, BB-699 and BB-704. Requires 115/230VAC 47 to 400Hz. 9.5x11.6x13, 38 lbs sh. #PP-7286, Used, $99.50 Op's Manual Repro, #OM-PP-7286, $10.00



Battery Charger for PRC-68/68B/126/128. Charges up to five of the #406870-1 rechargeable batteries at a time. Each battery has it's own holder and cable for charging. Requires 115/230VAC 60Hz or 28VDC 2 amps. Has a reset button and a high/low indicator for each station. Batteries sold seperate. 9.4x20.4x6, 18 lbs sh. #CH-PRC-68, Used Reparable, $175.00

Rechargeable Battery for above 15V .80 AH. #406870-1 Unused,$32.50

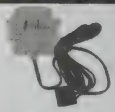
Transistor Audio Amplifier

TRANSISTOR AUDIO AMPLIFIER w/5-transistors, On-Off-Volume and Tone controls. Inputs for ceramic or crystal phono cartridges. Other possible uses as intercom, home-brew receiver, child's projects. Use with 8 or 16 ohm 3" or 4" speaker. Requires 6-9 V AC or DC; with schematic. 1.5 x 2.3 x 3.3. #ER-10-1231,
NEW, $2.95 ea; 2 / $5.00; 6 / $12.00; 100/$135.00

24V - 12V Converter

24VDC TO 12VDC 20 AMP CONVERTER. Compact design for in-car use. Input 24VDC. Output 12VDC. Maximum current 20 amps. Banana plugs. Fuse protected. #PSDC20, New, $58.95

Wall Transformers

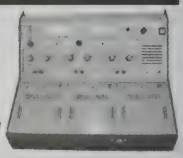


AURORA TOY WALL TRANSFORMER, changes 120 VAC to 9.5 VDC 350 ma output. 6' cord with slide lugs; 2 lbs sh. #AUR-95V34VA, 2 / $4.00

CERVCO AC ADAPTER, 11.5 VAC 175 ma out-put; 6' cord w/o lugs. #CER-11.5V, 2 / $3.00

13 VDC 1 Amp Wall transformer from 120VAC input. 6 ft cord w/ "Barrel Type" DC power connector O.D. 5.0mm; I.D. 2.5 mm. 2.6x2.2x3.4, 2 lb, #TAACA0201, $2.50

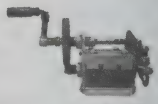
Electronic Trainer



Nida Trainer Model 130, Originally for electronic class troubleshooting instruction. This unit is power supply and test frame only, no test circuits. plus and minus low voltage power supply each 6, 9 , 12, 15 volts and variable to 24 vdc current limited 25. 50, 75, to 100 ma variable. Also high voltage 50, 100, 150, 200 to 250 vdc variable with current limit of 10, 20, 30, 40 to 50 ma variable. Large voltmeter and milliamper meter to monitor the output. Mini toggle switches under front panel to switch problems into circuit. This would make nice tube/low voltage breadboard station for your shop. Requires 115VAC 60Hz. 14.7x18x9, With Schematic. 25 lbs sh. #NIDA-130, Used, $59.50

Handcrank Generator

HANDCRANK MAGNETO GENERATOR from telephone equipment; features long crank with shaft extending 2.5" from generator and mount plate that allows left or right side or bottom mount. Will work up to 90 volts. Replace "dead" generator in antique phone or as remote bell ringer or "worm shocker"; 4 lbs sh. #MAG-GEN-1085, used, $19.95



GN-38 HANDCRANK GENERATOR, similar to above with flat magnets but has shorter fold-up GC-9 crank. Used in EE-8 and other older military phone equip. 4"Lx2.5" dia: 4 lbs sh. #GN-38, Used, $24.95

H V Supplies

HIGH VOLTAGE POWER SUPPLY, Input 120 VAC 50-60 Hz. Rated outputs: -5000 V (6+ KV tested) 1.8 ma, +120 V 15 ma, +24 V 0-1.25 amps, +16 V 200-450 ma. 4x9.5x4, 17 lbs shipping. #GE9T63Y2280G02, Used, $12.95

PLACE YOUR ORDER OVER THE WEB AT FAIRRADIO.COM

LOW VOLTAGE TRANSFORMERS

All 120 VAC 60 Hz primary unless otherwise noted; styles as indicated; may be "used" or "unused": Dimensions listed below are case only, so make allowance for terminals. Weights listed below are considered SHIPPING weights. Limited stock.

STYLES (A) (B) (C)

SECONDARY SIZE STYLE WT STOCK # PRICE

Two 5 V 3 A 3x3.3x3.4 (C) 7 #P-6333 $9.95
7.5/6.3 VCT 3 amps, 6.3 VCT 4 A

Dual 6V 400ma, 1.5x1.6x1.3, (C) 2 #11T-6V-400MA, $5

6.3V 1A 1.7x1.9x2.9 (A) 3 #38-6.3V-1A, $4.00

6.6V 10 A, 3.3x4x5.8 (A) 10 #77-6.6V-10A $9.95
6.6VCT 1 A

10 V 4 amp, 3x4x3.5 (C) 7 #BE-12696 $4.95
18 V 1.5 A, 19 V 2.5 A

12 V 9 amp, 5.3x4.3x4.8(C) 22 #P-601719 $8.95
12 V 3.2 A, 12 V 2 A, 44 V 2.5 A. (12 V windings can be wired to produce 12 V 14 A)

13 V 20 amp, 4x3.5x3.8 (C) 10 #430-9001 $19.95

15 VCT 3 amp, 2.5x3x2.5 (C) 2 #TRA-1577 $3.95

16.5 VCT 2 amps 2.6x2.5x2 (C) 2 #BE15869 $3.95

17 V 1.5 A, 2.5x3x2.5(C) 3 #54-995 $4.00
19 V 1.6 A

Dual 17V 5A 4.3x1.2 Torroidal 6 #4365-P1S2, $22

18V 5.4A, 4.5x4.8x4(C) 16 #401-21 $8.95
26 V 1 A, 6 V 900 ma,
25 V 500 ma, 35-10-0-10-35 V 5 A

18 V 1.5 A, 3x4x3.5 (C) 7 #BE12696 $4.95
19 V 2.5 A, 10 V 4 A

20V 20A, 5x4.3x5.3, (B) 16 #32-20V-20A, $24.00
Primary 115/220V

Dual 22V 3A 6x1.9 Torroidal 7 #40/3021, $18.00

22 VCT 3 A, 3.8x3x4 (C) 8 #3S92890015 $5.00
80 VCT 1.5 amps

Taps 24/19/10V 1KVA at any tap 6x11x14 (A) 84 #M1539,$85

25VCT 8 A 4 x 3.6 x 5.3 (A) 13 #200P25GT $14.95

25.2VCT 2A 2.1x3.9x2.6 (C) 4 #F-41X, $8.00

29.2V 2A 3.5x3.9x3.5 (A) 7 #612-29.2V-2A, $8.00
22.5V 2A

2x30 V 250 MA 1.8x2x1.5(C) 1 URC#60605 $2.50

30 VCT 560 ma 2.5x2.3x2 (C) 2 #401-6 $3.00
40 VCT 450 ma

32 V 3.5 amps 3.3x2.8x2.3(C) 4 #2-111219 $5.95

32 VCT 1.5 A; 2.5x2.6x2.1(B) 3 #142259 $3.95

35 VCT 1A 2.5x2.8x3(B) 3 #1341155-2 $2.50
Rusty condition

36 VCT 2A 2.9x3.5x2.3 (B) 3 #SR-448 $4.95

36VCT 3A 3.3x3.3x2.8 (B) 6 #701-121, $8.00

38VCT 1.4A 2.2x3.3x2.3 (B) 4 #203A6725, $5.00
5V 1 amp

38.9V 4A 2.6x3.8x3.5(C) 5 #021/0220050 $7.50
tapped 26-9-3-0.9 V, 150 VCT 200 ma

40VCT 1A 2.2x3.7x2.2 (C) 4 #URC56000, $5.00

40 VCT 1A, 3.3x3.8x3.3(C) 7 #P-1220 $7.00
31 VCT 2 A, 11 V 1.2 A

40 VCT 2.1 A, . 3.5x5.5x3(A) 8 #9807 $6.95
24 V 1 A, 117 V 50 ma: sealed

52 VCT 2.6A, 3.2x3.8x3 (B) 6 #EIA606-451 $7.00
tapped 33 and 18 VCT

70 VCT 5 A, 4.5x4.8x4 (C) 16 #401-21 $8.95
tapped 20 VCT; 18 V 5.4 A, 26 V 1 A, 6 V 900 ma

80 VCT 1.5 amps, 3.8x3x4 (C) 8 #3S92890015 $5
22 VCT 3 A

90VCT 2A, 4.1x3.4x2.9, (C) 9 #24-90V-2A, $14.00

Dual 90V 2.5A, 3x5.2x4.4, (C) 13 #20-90V-2.5A, $20
tapped on each of the 95V windings at 60V, 32 vct around 200ma

Dual 95V 2.5A, 3x5.2x4.4, (C) 13 #28-95V-2.5A, $22
tapped on each of the 95V windings at 60V, 32 vct around 200ma

100VCT 830ma, 2.2x2.7x2.5, (B) 3 #15-100V-83MA, $16

100V 1.5A 6.5x6.3x5.9 (C) 25 #42-100V-1.5A, $25.00
2/15V 1A, 19V 2A, 60V 4A

100V 8.5A 7x6.1x6 (C) 33 #42-100V-8.5A, $55.00

HV Transformers

SECONDARY SIZE STYLE WT STOCK # PRICE

145V 390ma 2.7x2.8x3.4 (C) 6 #28-145V-390MA $20

289V 200MA, 4.6x3.9x6.4 (A) 15 #8-289V-200MA $25
207V 125ma, 6.3V 1.4A

375 VCT 50 MA 2.5x3x2.6 (B) 3 #8316527 $6.50
6.3 V 2 amp (230 VAC only primary)

450VCT 30ma 2.2x2.5x3.9 (A) 5 #33-450V-30MA, $14
6.3V 2A, 12V 500ma

500VCT 10ma 2.4x2.5x3.5 (A) 5 #3-500V-10MA,$12

500VCT 125ma 2.9x2.5x3.3 (B) 5 #TR180, $14.95
6.3V 1 amp

545VCT 20ma 2.8x3.3x2.9 (A) 5 #32-545V-20MA $12
6.3VCT 3A

550VCT 12ma, 2.4x2.9x4.1 (A) 5 #3-550V-12MA, $7.95
60VCT 300ma, 6.3V 600ma

580VCT 600 MA, 5.6x4.4x5.4 B 21 #13920, $29.00
80 VCT 850 MA TAPPED 60VCT, 5V 150 MA
8V 350 MA, 30VCT 500 MA

750VCT 110ma 3.9x3.9x5.5 (A) 13 #9-750V-110MA $26
5V 2A, 6.3V 3.6A, 6.3V 0.9A

800VCT 27ma, 3.4x3.1x3.9 (B) 8 #9100-0011, $15.
5V 2A, 6.3V 3.25A, 6.3V 1.5A

1752v 270 ma, SIZE CASE 20 #6155-HV, $65.00

TRANSFORMER THAT PRODUCES HIGH VOLTAGE FROM YOUR CAR ALTERNATOR.
Three phase Delta to three phase Y power transformer. Primary 200 V delta 3 phase 400 Hertz, Secondary 1510V "Y" 500 MA. This transformer originally produced 2000 VDC for a 1000 watt military transmitter. There is information is in some older "Radio Handbook"'s which show this type of transformer used with an automotive alternator to produce high voltage for use with a RF power amplifier. Removed from equipment 5 lbs sh. #T1/ARC-3Phase, $30.00 each.

Audio Transformers

Primary Secondary

50 ohms 30ma 500 ohms 400 to 1900 Hz Mic Transformer 1.5x1.3x1.5(A) 1 lb #T204/PP115 $3.

100 ohms 100K ohms; input transformer, 2.1x2.2x3.2 (A), 2 lb #T3/AM20 $7.95

250/4000 ohm 150, 600 ohmCT 400-3000 Hz 1.8x1.8x2.5(A) 2 lb #C280/RM39 $4.00

400/500 ohm CT 400/500 ohm split 0.7x0.9x0.6 1 lb #UTC-SO-11, $3.00

500 ohm CT 500 ohms CT 600-12000Hz 2.3x2x2.5 (A), 2 lb #T203/PPII5 $3.00

15K ohm 600 ohm 100-5000Hz DC Current=0 1.6x1.7x2.9, (A), 2 lbs #9120-0018, $6.00

Audio transformers which we were told were from Altec/Altec Lansing Public Address amplifiers. We have no specific data on these, but offer them to those who may know what they are. All ohms listed below are DC resistance. We will list all the information we have and pictures on our web site at fairradio.com/audiot.htm

Pri. 0.5 ohm; Sec. 8.7 ohm tapped 8.4, 8.3, 8. Open frame, 2.7x3.7x2.3, 4 lbs sh. Sam Woo mfg. #050-7000-00, $5.00

Pri. 0.3 ohm; Sec. 3.7 ohm tapped 3.65, 3.6, 3.5. Open frame, 2.9x3.4x2.8, 6 lbs sh. Sam Woo #50-7001-00, $7.50

Tamradio #302216, Winding(1) 19.3 ohms, (2) 5.7 ohms CT, (3) 3.4 ohms CT, (4) 5.2 ohms CT, (5) 20.4 tapped 17.1 ohms, (6) 21.5 tapped 16.7 ohms. Open frame, 3.1x3.2x2.8, 5 lbs sh. $5.00

050-0145-05 EIA606-625, Winding(1) 0.7 ohm tapped 0.4, (2) 2.1 ohm tapped 1.8, (3) 0.4 ohm tapped 0.3. End Bell, 3.8x3.8x3.1, 9 lbs sh. $10.00

TRIAD TRANSFORMERS

#TY--61X TRANSISTOR DRIVER 100 ohms 100 ma : 100 ohm CT, 50-10KHz 500 mw. 2.7x1.5x1.5. $4.00

#TY-65Z MODULATION Pri: 32 ohms CT 575 MA DC Sec: 4K-6K ohms 10 W. 2.7x2.4x2, 2 lbs. Used, $5.

Industrial Transformers

Taps 90 thru 3KV at 20KVA at any tap #3KV-20KVA,$999
(Primary 160V 137.5A) 5 - 3000Hz One Phase 20.3x16.5x22.5, Open Frame, Approx. 500 lbs

115/270V 4.9KVA 10x9x9.7 (C) 100 #44-115V-4.9KVA,$225
115/135V 2.7KVA (600VAC only primary)

71V 53.5A 8.7x9x9.2 (C) 80 #44-71V-53.5A, $175.00
(Primary 200/230/380/415/460/575VAC)

Taps 208/220/240V 9A 8x8.3x7.4 (C) 60 #SU-2, $175.00
(Primary 416/440/480V 4.5A)

229V 70A 3 Phase Y 22.5x11.3x18 (C) 400 #SHED-Y,$600
(Primary 420/440/460/480/500V 37-31A)

230V 250KVA 5.8x5.4x5.9 (C) 19 #42-230V-250KVA, $35
(Primary 208/270/325/380VAC)

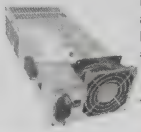
Taps 80/90V 1KVA 8.5x5.3x5.4 (C) 33 #3-40239-98,$50.
(Primary 240/480VAC)

HARRIS RF AMPLIFIER 3-PHASE POWER TRANSFORMER from Harris RF765 5 KW transmitter; two outputs of 1916 V 2.3 amps and one 1518 V 490 MA from 208/220/230/240 V 3-phase input. Made by Basler; 17x 26.5 x12.5, 300 lbs shipping. Harris mfg. #10178-5200, used, $450.00

MANY ITEMS NOT LISTED - TELL US YOUR NEEDS

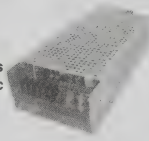
Switching Power Supplies

HEAVY DUTY SWITCHING SUPPLY, outputs +5 VDC 28 amps, +12 V 4 A, +24 V 1.5 A from 115 VAC 60 Hz in. W/ ON-OFF switch, & 16-pin Molex output connector. "AS-IS" complete, no schematic" 2x5x13, 6 lb #SWPS-528, $6.95

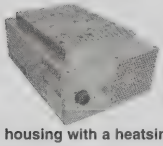


SWITCHING POWER SUPPLY with 3" axial fan. Outputs +5 V 10 amp, +12 V regulated 2.5 A, +12.5 V 5 A unregulated from 115 VAC 50/60 Hz input. P/o Wang equip. 2.6x5.1 x12.5, 7 lbs. #12690, $14.00

POWER SYSTEM switching supply, outputs +5 V 7 amps, +12 V 3 amps, -12 250 ma, -5 300 ma from 115/230 VAC 50-60 Hz input. 7.8x 4.4x1.5, 3#. NEW: #PS1558, $15.00

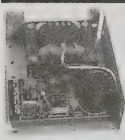


Switching Power Supply, Outputs: 5VDC 20A, 15VDC 2.5A, -15VDC 1.0A, 24VDC 4.0A. Housing is perforated. Requires 115/230VAC 50/60 Hz. Xentek Inc mfg. 10.9x7x4.2, 7 lbs #SX200-81605, Unused, $8.95; 4 for $29.95



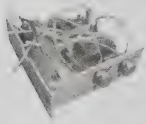
Switching Power Supply, Outputs: 5VDC 21A, -5.2VDC 7.5A, 12VDC 4.7A, -12VDC 1.5A. Each output has a potentiometer adjusting the voltage +/- 1 volt. Perforated housing with a heatsink on top. Requires 115VAC 60 Hz. Various mfg. 10.9 x 7 x 4.2, 15 lbs #A3060884, Unused, $9.95; 3 for $24.95

Power Supply Modules



5 VDC 3 Amps regulated open frame power supply with over voltage protection from 115/230 VAC primary. Mfg by International Power. 4.9 x 4 x 1.9, 4 lbs sh. #IHB5-3OVP-506, Unused, $15.95

+5/-5 V 3 AMP REGULATOR BOARD, up to 24 VDC unregulated. Capacitors two 15000 mf 15 V, 33000 mf 30 V. Two each KBPC rectifiers, 2N6576, 2N4441 SCR. 7.8x6x4; 3 lbs sh. #MEND-REG-5V, $5.00



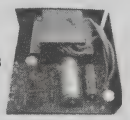
REGULATOR MODULES from Sun supplies, each with current limit and voltage adjust. Includes bridge rectifier, filter capacitor, two 2N3055 or equal and 723 regulator; 2 lbs sh. No further info. #SUN-REG-124, 12 V 4 amp, $10.00 #SUN-REG58, 5 V 8 A w/OVP; $8.00

50 Amp P.S. Chassis

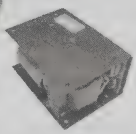
PP-4763/GRC POWER SUPPLY, produces 28 VDC 50 amps from 115 VAC 22 amps 47-63 Hz 22/11 amp input; solid-state with +/-0.5% regulation. Has meters 0-50 VDC and 0-80 amps DC; 13.5x 19.5x15, 145 lbs. #PP-4763-LM, Used less control card, both mtrs, and circuit breaker, $120.00 Manual repro, #MM-PP-4763, $10.00

Power Supplies

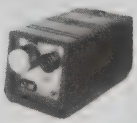
5 VDC 6 AMP AC DC MODULAR SUPPLY, +0.05 line and load regulation from 100/117/220/23/240 VAC 47-440 Hz input; 4.9x5.6x2.5, 5 lbs. #ECV5N6-1, NEW, $15.00



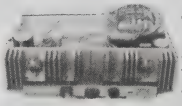
5 VDC 3 AMP EXELON DC REGULATED SUPPLY, and 12 VDC 0.1 amp output from 115/230 VAC 47-63 Hz input. 5x5.3x2.8, 4 lbs. #PS-1545, NEW, $10.00



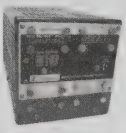
12 VDC 1.5 AMP DC POWER SUPPLY, Adjustable +/- 2.25 volts. Requires 115 VAC 60 Hz; Mfg by ACDC Electronics. 4.9x6.3x3.4, 7 lbs sh. #10-4131-045, Unused, $19.95



12 VDC 1.5 AMP DC POWER SUPPLY designed for small tool rated under inductive load like a motor. Output > 20 VDC under lesser loads; can be varied somewhat depending on load. With 6 ft AC cord; requires 115 VAC 60 Hz; 2.5x2.5x5, 3lbs sh. #DR-12VPS, NEW $10.95



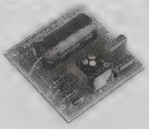
COLECO DISK DRIVE POWER SUPPLY for ADAM system; transformer type with outputs +5 V 3 amp, +12 V 2.9 A, -5 V 200 ma, and +18 V inductive 1 A. 115 V 60 Hz input. With cords and On-Off switch. 11x4x8, 10 lbs sh. #COL72559, unused, $10.00



Linear Regulated Power Supply by Lambda, adjustable 20VDC +/- 5% at 5 amps. Perforated housing. Requires 205-265VAC 55-65 Hz. 10x4.9x4.8, 17 lbs, #LM-CC20-VUsed, $45.00

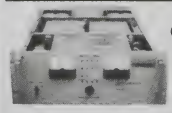
24VDC 12 AMP or 28VDC 10 AMP POWER SUPPLY, Requires 115/230V 47-63Hz. Mfg by Power One. 16.8x4.9x4.8, 20 lbs sh. #F24-12-A, Unused, $75.

Power Supply Kit



1A POWER SUPPLY KIT. This small power supply provides a regulated voltage, adjustable between 1.5 and 35 volts at 1 Amp. With the LM317 regulator remarkably better ripple and regulation characteristics are given with conventional regulators. Current limiter and thermal overload protection are included in the IC. Supplied without heatsink. Output current: 1.5A max. Max. dissipation: 15W (cooled). Max. input voltage: 40VDC. PCB dimensions: 2.1" x 2.1". #K1823, $12.99

Frequency Converters



ELGAR 500 W FREQUENCY CONVERTER uses four 125 watt power amps; voltage, freq & phase digitally programmable. Input 208 VAC 60 Hz; output 300-1000 Hz selectable 0-15/30/130 V (phase A'), 0-40/ 160 V (phases A, B, C) & tandem A~~O~~+B~~O~~=240 VA @ 115 V. Special Elgar 504 requires 16-bit binary & TTL programming to operate; info not available. 7x 19 x24, 150 lbs. #580-283-047, UNUSED, ~~$495~~ $250.00

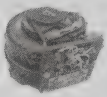
Variable Transformers

- - OTHER RATINGS AVAILABLE - -
Tell us your needs!

All variable transformers listed below are used good condition unless otherwise specified.

GENERAL ELECTRIC VARIABLE TRANSFORMER, input 120 VAC 60 Hz. Isolated output 0-60 VAC. Maximum current load: 5 amps. Two units wired in series will produce 120 VAC output. Coil not enclosed; dial plate & knob not included. 4.4"dia X 4"H; 6 lbs GE #9T92A1515, NEW, $19.95; 2 for $35.00

POWERSTAT variable transformer, no dials & knobs. 0-30V at 25 amps 60 Hz or 15-0-15V at 35 amps 60 Hz out from 120/240 V input double wound; Actually has two isolated 15V secondaries. Great basis for a 12 or 24 volt power supply. Enclosed, motorized 3 section (3 phase). 12" dia X 30"H, 90 lbs. #DMLW-136BT-3, $195



380 HZ VARIABLE TRANSFORMER, input 120 VAC 380/1000Hz; output 0-120 VAC 380/1000 Hz 13 amps. 7x6.2x3.3, 9 lbs. #GA5065OL $18.00

Staco 20 Amps 0-180V, input 120V, motorized. 8.8x8x10.5, 36 lbs, #033-6565, $120.00

+ +

Variable transformers listed below are 240VAC 60Hz Inputs; not enclosed. Used unless otherwise stated.

GE 8.5 Amps 0-240/280V, input 120/240V, motorized. 7.6x6.9x10.2, 23 lbs sh., #9T92A30G51, $89.50

GE 8.5 Amps 0-240/280V, input 120/240V. 7.1x6.2x6.3, 17 lbs sh., #9T92A30, $92.00
Pointer knob, #KN-9T92A30, $1.00
Dial Plate, #DP-9T92A30, $1.50

Powerstat 9 Amps 0-240V, Input 240V, motorized, perforated sides. 9.1x9.5x10, 30 lbs sh., #2388-10698, $89.50

Staco 10 Amps 0-240V, input 240V, motorized, perforated sides. 8.9 x 9.5 x 10.3, 30 lbs sh, #033-7015, $99.50

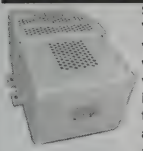
Dynamotor Supplies

#D-10A Used, $15.00
#D-401 Used, $12.00
#DM-36 Re-new, $15.00
#DM-53 Used w/ base, $10.00
#DM-53-12, 12V Unused w/o base, $14.00
#DY-9 from ARC1 or equal, $14.00
#DY-86 from ARN-30, $15.00
#DY-107 Used, $37.50
#PE-98 14V Used, $30.00
#PE-133 Unused, $15.00

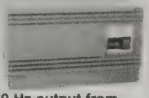
#2C4312/B50 HINGE SET for the DM-21 in BC-312/342, $7.00

CHECK OUT OUR LATEST FEATURE ITEMS AT FAIRRADIO.COM

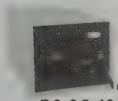
Regulators / Conditioners



Sola CVS 2000 Watt Constant Voltage Transformer provides a very well regulated sinusoidal waveform that is isolated from variations and disturbances in the input voltage. Also provides isolation and step-up/step-down to allow for various input/output voltages. Input 95-130/175-235/190-260/380-520 60Hz. Output 120/240VAC 60Hz 2000VA. 17.8x11.4x9.6, 115 lbs sh. #23-23-220-8, Unused, $250



WANG POWER CONDITIONERS, electronic line voltage regulators with full magnetic isolation protects computer & similar equipment from line voltage surge or "sag" damage. Provides "clean" 120 VAC 60 Hz output from inputs of 90 to 135 VAC 60 Hz. Low input shutdown @ 50% of nominal. OVP shutdown @ 12% above max output. 7.8x13x10.4: 1000 VA output with one large L5-20R receptacle; 45 lbs sh. #SC-100A-PC, New, $195



WANG LINE REGULATOR, designed for 120 VAC 500 W constant output for computers from 95-130 VAC 60 Hz inputs. Has two 3-conductor outlets, On- Off switch, and line cord. 7.8x8.5x16, 40 lbs sh. #725-2740, unused, $125.

SOLA #63-13-150 C-V HARMONIC NEUTRALIZED REGULATOR, 120 V 60 Hz 500 W output from 95-130 VAC 5 amp input. Two 3-cond outlets & On-Off on front. 6.9x7.8x13.3, 34 lbs. #63-13-150, Used, $95.00

GENERAL RADIO 1582A VOLTAGE REGULATOR, automatically compensates for AC Line voltage fluctuations; output 115 VAC +/-10%; 7.4x19x16, 90 lbs sh. 85 amps, 90-110% correction, #GR1582A-AL, $275.00

Other Semiconductors

2N3716, $1.95	2N4126, 5/$1.00	2N6292, 2/$1.00
2N3739, $1.95	2N5428, $1.00	2N6675, $3.95

REGULATORS

1.2-37V 1.5A out; 0.03% load reg., #LM-117K, $3.50
30W 3 amp 5V positive regulator, #LM-123K, $1.95
Negative adjustable regulator, #LM-137K, $1.95

Metal Oxide Varisters "MOV"

#S14K130 130V $1.25, #S14K175 175V $1.50

IsoTop Semiconductors

Power MOSFET, Low gate charge- Fast Switching Rds on 0.180 ohm, Id continuous 40Amps Pd watts 690, Ciss(pf)11715 Qg (nC) 468, removed from equipment, no hardware. Hardware required is metric. 15/16"D x 1 7/16"W x 7/16"H, #APT8018, $15.00 each

Rds on 0.150 ohm, Id cont. 38Amps, Pd watts 520, Ciss(pf)5540 Qg (nC)242 removed from equipment, no hardware. Same style as above. #APT6015, $14.75

Motorola Switchmode II NPN power transistors. For switching and inductive load drivers. 450VDC 15A 175 watts. TO-3 case. #BUX48A, Unused, $3.25 each

IC SOCKETS

LOW PROFILE

16 PIN, #ICS-16-LP, 12 for $1.00
20 PIN, #ICS-20-LP, 10 for $1.00
22 PIN, #ICS-22-LP, 6 for $1.00
24 PIN, #ICS-24-LP, 6 for $1.00

STANDARD

24 PIN, #ICS-24-S, 2 for $1.00
28 PIN, #ICS-28-S, 2 for $1.20
40 PIN, #ICS-40-S, $1.00 each

WIRE WRAP

14 PIN, #ICS-14-WW, 6 for $2.00
16 PIN, #ICS-16-WW, 6 for $2.00
18 PIN, #ICS-18-WW, 5 for $2.00

NTE Semiconductors

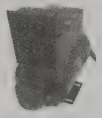
NTE Cross Reference CD, $5.00 — NTE Cross Reference Book, $4.95

NTE#	DESCRIPTION	PRICE
2V130	MOV 130V RMA	$1.97
85	T-NPN SI GENERAL PURP AMP TO-92	$0.76
109	Diode-Germanium Gen Purp 75PRV DO-7	$0.98
112	DIODE-SI-UHF TV/MIXER DO-7	$1.57
116	RECTIFIER-SI 600V 1A DO-41	$0.38
123	T-NPN SI-AF PREAMP/DRIVER TO-39	$0.70
123A	T-NPN SI-AF/RF AMP TO-18	$0.89
123AP	T-NPN SI-AF/RF AMP TO-92	$0.71
125	RECTIFIER-SI 1000V 2.5A DO-41	2/$0.89
125-10	Pack RECTIFIER-SI 1000V 2.5A DO-41	$3.49
125-100	Pack RECTIFIER-SI 1000V 2.5A DO-41	$28.99
128	T-NPN SI-AF PREAMP DRIVER TO-39	$1.30
128P	T-NPN SI General Purpose AMP TO-237	$1.07
129	T-PNP SI-AF OUTPUT TO-39	$1.86
130	T-NPN SI-AF POWER OUTPUT TO-3	$2.30
135A	ZD-5.1V 1W DO-41	$0.55
142A	ZD-12.0V 1W DO-41	$0.55
145A	ZD-15.0V 1W DO-41	$0.55
156	RECTIFIER-SI 1000V 3A DO-15	$0.71
159	T-PNP SI-AF PREAMP DRIVER TO-92	$0.87
172A	T-NPN SI-DARLINGTON AMP TO-98/92	$0.98
177	Diode-SI Gen Purp Det 200 PRV DO-35	$0.99
181	T-NPN SILICON AUDIO AMP TO-3	$5.59
184	T-NPN SILICON AUDIO PO TO-126	$1.50
185	T-PNP SILICON AUDIO PO TO-126	$2.75
199	T-NPN SI-LO NOISE TO-92	$1.06
253	T-NPN SIL DARL 80V HFE-2000 TO-126	$2.37
261	T-NPN SIL DARL 80V TO-220	$2.33
262	T-PNP SIL DARL 80V TO-220	$2.38
263	T-NPN SIL DARL 80V TO-220	$2.44
287	T-NPN SI-HI VLTG Gen Purp AMP TO92	$0.80
289A	T-NPN SI-AF POWER OUTPUT TO-92	$1.42
290A	T-PNP SI-AF POWER OUTPUT TO-92	$1.47
291	T-NPN SI-POWER OUTPUT/SW TO-220	$1.79
303-5	Pack HEAT SINK COMP'D 1 GRAM	$1.72
331	T-NPN SI-AUDIO PO/SWITCH TO-220	$2.41
373	T-NPN SI-AF DRIVER TO-126	$1.98
378	T-PNP SI-Power Driver/Output TO-220	$3.38
399	T-NPN SI-VIDEO OUTPUT GIANT TO-92	$2.30
422-2	Pack Insulator Kit for TO-220 Package	$1.96
423-2	pack IC SOCKET 8PIN DIP	$1.34
458	JFET-N-CHAN GEN PURP AMP TO-92	$1.70
506	RECITIFER-SI-HI CUR/FAST SWITCH	$1.78
519	DIODE-SI FAST SWITCHING DO-35	$0.99
552	RECTIFIER-SI 600 PRV 1A DO-41	$1.39
558	RECTIFIER-SI 1500V 1A DO-41	$1.54
570	D-SI CONTR AVALANCHE 135V TO 180V	$1.44
574	R-SI 400V 1A FAST RECOVERY DO-41	$0.62
576	RECTIFIER-SI 400V 5AMP 35NS DO-27	$1.54
577	RECTIFIER-SI 1000V 5AMP 70NS DO-27	$2.97
580	RECTIFIER-600V3A FAST RECORD	$2.26
588	DIODE-SI 200V 3A ULTRA FAST DO-27	$1.76
618	DIODE-AM RADIO TUNING DIODE	$2.50
778A	IC-DUAL OP AMP 8 PIN DIP	$3.81
941M	IC-FREQ COMP. OP AMP 8-PIN DIP	$0.87
955M	IC-TIMER/OSCILLATOR 8-PIN DIP	$1.86
960	IC-POS VR 5V 1A TO-220	$3.73
966	IC-POS VR 12V 1A TO-220	$3.93
987	IC-QUAD OP AMP 14-PIN DIP	$2.48
1866	IC-LED VU Scale Meter Driver 9-PIN SIP	$2.14
2018	IC-8 CHAN CMOS/TTL DR 18-PIN DIP	$3.06
2331	T-NPN SIHI VLTG Horiz Switch w/ Damper	$6.57
2343	T-NPN SI Darl Power Amp/Switch TO-220	$1.70
2353	T-NPN SI COLOR TV HORIZ OUTPUT	$6.91
2389	MOSFET-PWR N-CHAN HI SPD SW TO-220	$5.05
2395	MOSFET-PWR N-CHAN HI SPD SW TO-220	$5.29
3041	Opto Isolator/NPN Transistor Output	$2.11
4006B	IC-CMOS 18 STAGE 14-PIN DIP	$3.00
5077A-2	pack ZD-18.0V 1W DO-41	$1.98
5304	RECTIFIER-SI BRIDGE 400V 1.5A	$1.73
5322	RECTIFIER-SI BRIDGE 200V 25A	$4.34
5332	RECTIFIER-SI BRIDGE 600V 1A	$1.67
5342	RECTIFIER-SI BRIDGE 600V 40A	$9.52
5344	RECTIFIER-SI BRIDGE 1000V 40A	$10.97
5800	RECTIFIER-50 PRV 3A Axial Lead DO-201	$0.51
5801	Rectifier-100 PRV 3A Axial Lead DO-201	$0.76
5804	Rectifier-400 PRV 3A Axial Lead DO-201	$1.18
5809	RECT-1000 PRV 3A Axial Lead DO-201	$2.60
5812	RECTIFIER-100 PRV 6A	$1.58
5814	RECTIFIER-400 PRV 6A	$1.84
5815	RECTIFIER-600 PRV 6A	$2.89
5817	RECTIFIER-1000 PRV 6A	$3.70
6419	SIDAC 110-125V	$2.76
7407	IC-TTL Hex Buffer/Driver 14-Pin Dip	$1.57
8085	THERMAL FUSE 87*C	$1.05
8090	THERMAL FUSE 93*C	$1.05
8098	THERMAL FUSE 100*C	$1.05
8103	THERMAL FUSE 104*C	$1.05
8118	THERMAL FUSE 121*C	$1.05
8139	THERMAL FUSE 141*C	$1.05
8181	THERMAL FUSE 184*C	$1.05
8213	THERMAL FUSE 216*C	$1.05
8242	THERMAL FUSE 240*C	$1.05
75189	IC-DTL QUAD Line Driver 14-PIN DIP	$2.14
TP0001	THERMO PAD FOR TO-3 PACKAGE	$1.66
TP0002-100	Thermo Pad for TO-66 Package,	$17.95
TP0004	THERMO PAD FOR TO-126 PACKAGE	$0.89
TP0006	THERMO PAD FOR TO-220 PACKAGE	$1.22
TP0007	THERMO PAD FOR DO-5 PACKAGE	$1.34
TP0010	Thermo Pad FOR TO-3PML PACKAGE	$2.20

Inverters

12 VDC to 120 VAC 60 HZ INVERTER, rated 200 watts continuous; 600 W surge. Output is squarewave with zero-crossing. Has studs for input & 3-cond outlet. 3 x 7.5 x 4.8, 7 lbs.
#RC-12200, New, $49.50

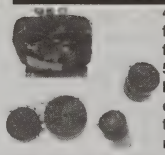
ROTARY INVERTER, output 115 VAC 400 Hz 1 phase 750 VA from 28 VDC 60 amp input; Leland or =. 12x9.5 x7, 42 lbs shipping.
#INV-750, Gov't-Recond, $57.00



INVERTER, like above except 750 VA out from 28 VDC 60 A in; 9.3x16.5x7, 40 lbs sh., #PU-16, $32.95

Motor Generator for GRC-106 Model SS688. Input 27.5VAC 24 Amps. Output 115VAC 60Hz 3.48 Amps. Continuous duty. 3600 RPM. 12x6.5x12, 47 lbs sh., #SS688, Used, $65.00

Inverter Kits



400 HZ INVERTER KIT removed from PP-2352; good foundation for 28 VDC to 115 VAC 400 Hz 500 watt 1 phase inverter. Includes oscillator feedback, driver, output, & regulator transformers, two saturable reactors & schematic info. Add other components to suit your power needs; 10 lbs #KIT400HZ-500W, $49.50

400 HZ SOLID STATE INVERTER KIT will produce 115 V 400 hz at a current and voltage dependent on the transformer you use. Supplied parts include, special feedback transformer, resistor/diode boards, two transistors on heatsinks which when combined with your center tapped transformer will produce 400 Hz power. For 12vdc operation use a 20-26 vct transformer. For 28 volt input use a 40 - 52 vct transformer. With schematic & info. #INV-47, $19.95

#INV-47-52, 52CT w/ 52VCT xformer f/ 28v input, $27

PLACE YOUR ORDER OVER THE WEB AT FAIRRADIO.COM

Rectifiers

DIODES:
1 AMP 50 PIV, #1N4001, 20/$1.00
1 Amp 400 PIV, #1N4004, 15/$1.00;
1 Amp 1000 PIV, #1N4007, 10/$1.00
6 AMP 200V, #MR752, $1.00
12A 100V, #1N3890, 4 for $3.00
35A 100V, #1N1184, Used, $1.00
200 PIV 300 A; 4" tail. #D-R610-0230, Used, $8.95
RF DIODES: 1N21, $1.50; 1N23, $2.50

Diode Heatsink Assembly

with six MR-1815-SL 300 PIV 100 amp diodes; heatsink 2.6x9.4x4.8, 4 lbs sh. #DHS6-1815, $29.95

SILICON CONTROL RECTIFIER assembly single phase half-wave; GE #C1411CX5 or equivalent. Rating approx 500 V 35 amps. 7x6.3x5, 4 lbs shipping. #KS-19576L1, Used, $6.95

Heatsinks

Heat Sink Bonanza!!! Get 10 pounds of various heatsinks in different shapes & sizes with or without diodes & semiconductors. #HEAT-10GB, $10. As above but 25 pounds. #HEAT-25GB, $19.95

HEATSINK, 6"Lx3.5"Wx1"H; drilled three 7/16" dia holes for diodes, 2 lbs. #HS-10169, $2.50

3x4.5x1.3 for two TO-36, #2T34513, $1.25 ea

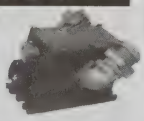
HEATSINK w/diode approx 100 piv 25amp; 5x3x1.3, 1 lb. #WE-H1D, Used, $2.50

HEATSINK, 5x3x1.6; drilled for 3 large stud rectifiers (1" dia recesses), #3D528-8, $2.00

VRC-12 Suppressor

MX-10237 / MX-2096 Suppressor Electrical Transient for the VRC-12 Radio Set. This circuit protector consists of a standard size 4 pin GRC male connector with a threaded center, indicator light, 2 hole mount bracket, heatsink, and plate which is marked "Danger High Temp 215 degree F". FSN #5915-01-024-3877. It connects directly to either the transceiver or AUX receiver mount. In some applications it replaces the MX-7778 suppressor. No further data. 3 lbs sh. #MX-10237, Unused, $15.00

DC Supressor



MX-7777 SUPPRESSOR protects vehicle radios VRC-12, VRC-53/64 & GRC-106 from damage by voltage transients. Input 28 VDC; output < 36 VDC. Has 50 amp circuit breakers for Overload & Short; diode overheat protection & manual (BATTLE) override. 5.3x7.3x6.8. 7 lbs shipping. #MX-7777, Used, $22.00

PLUGS (2) for MX7777; #29935-2P, used, $7.50 ea
PLUGS (1) for MX7777; 4 pin female, #7777-4P, Used, $7.50

AC Fans

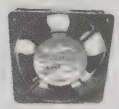
3.1" sq X 1.6"D 7-blade mini-fan in metal housing; 115 VAC 50/60 Hz, 2 lb. #TA300, Used, $8.95

5-BLADE COOLING FAN removed from military power supply; 4.3" dia rotation. 115 VAC 3300 RPM; w/ capacitor. 2.8"D. #FAN-2054, Used, $3.50

5-BLADE COOLING FAN, 4.6" dia rotation; no enclosure. Mounting bracket hole centers 5.9" apart. 115 VAC 60 Hz. 2 lbs shipping. Mfg by Airtrol. #11-2100, New, $4.95

+ +

AXIAL FANS, 4.7" sq X 1.5" thick; 115 V 60 Hz.



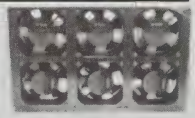
5-BLADE in metal frame; 18 W. Various mfg. #FN-5U, Used, $8.95

5-BLADE as above except .11 amp, #TA450S, Unused, $13.00

+ +

ROTRON TARZAN FAN, 6.8" square X 4" D plastic frame fan moves 340 CFM of air from 115 V 50-60 Hz 85 watt input; 5 lbs shipping. #TN3A2, Used-clean, $19.95

6 Fan Panel



17.3"W X 10.5" panel frame has six high output Torin TA450S (or =) 4.6" square 5-blade metal-framed fans. Each fan rated 65 CFM and requires 115 VAC 50-60 Hz 0.11 amps; 12 lbs. #6F-PNL, Used-excellent, $39.50

DC Fans

Mini BOXER 12 VDC FAN, 0.13 amp; 3.6" sq X 1". #3610NL, New, $10.00

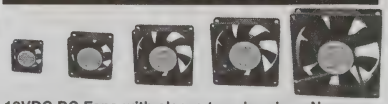
PANAFLO MINIATURE 12 VDC FAN 2.3" sq. #FBP-068-12L, New, $7.95

PAPST 18 VDC 2 w / 30 VDC 3 W FAN 9-blades; 3.5" sq X 1" deep. #3124F, New, $9.00

CENTAUR 24 VDC AXIAL FAN, 11 watts but operates well at 12 VDC. 4.7"sqx 1.5" D metal frame with 5-blade plastic fan; 2 lbs sh. #CNDC24K4-601, Unused, $8.95

SUNON 24 VDC FAN, 6 watts. 4.7" sq x 1.2" deep plastic frame with 5 blades. Metal guards on each side. #KDE2412, Unused, $10.00

12VDC Fans



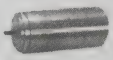
12VDC DC Fans with sleeve type bearing. New,
1.6"x1.6"x0.48", 3CFM, #BSS12/4LC, $3.95
2.4"x2.4"x1.0", 11CFM, #BSS12/6LC, $4.95
3.1"x3.1"x1.0", 15CFM, #BSS12/8LC, $4.95
3.6"x3.6"x1.0", 22CFM, #BSS12/92LC, $4.95
4.7"x4.7"x1.0", 44CFM, #BLS12LC, $9.95

Selsyns & Synchros

CONTROL TRANSFORMER 90/55 V 60 Hz; 3.6"Lx2" dia. 2 lbs. sh. #1HCT-MKII, Used, $20.00

TRANSFORMER 90/1V / degree 60 Hz, #23CT6, $12

RECEIVER, 115 VAC 400Hz, #23TR4, used, $10.00



TACHOMETER GENERATOR, motor 265 V 400 Hz 2 phase: generator 18 V 400 Hz 0.3V/1000 RPM. No load speed 10000 RPM. 2 1/8"Lx1" dia 3/16"Lx1/8" dia shaft. #TACH-SEL-MOD, $7.95

PHASE SHIFTER, unsymetrical resolver; rotor 1 phase 5 V 30 Hz. stator 2 phase 5 V 30 Hz. 1.4" dia x 2"L. #PS-17-E-1, used, $10.00

AY-1 AUTOSYN as used in I-81/ I-82 indicators; 2 lbs sh. #AY-1, $7.50

26V 400Hz Wind Selsyn, works with the I-81 and others. 1/8" shaft. #WIND-SEL, Unused, $14.00

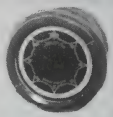
+ +

UNITED STATES NAVY SYNCHROS, Description and Operation, a copy of Publication #OP 1303 printed April 1958; 100 + page primer about selsyn/synchro theory and types. #BK-USNS, $12.50

Compass Indicators

3" DIA 0-360 deg-ree RADIO COMPASS INDICATOR, adaptable for wind direction & antenna position use; 5 degree increments, 2 lbs shipping. #I-81, Used, $13.00

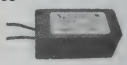
BENDIX IN-4D LEFT-RIGHT INDICATOR, 3" dia WW-2 vintage instrument shows wing-tip position relative to ground; requires 24 VDC. 2 lbs. #IN-4D, $15.00



SPERRY MARINE INDICATOR MARK XX MOD.2, part of shipboard gyrocompass repeater. Has 8" dia 360 degree scale in 1° increments under glass; uses two Size-5 115 VAC 60 Hz selsyn transmitters. One drives inner directional indicator; second outer degree scale. With 7 ft cable & special connector; 10" dia X 8.5"D; 45 lbs sh. #IN-SPERRY, Unused, $125.

R-C Networks

R-C Network - 0.47mfd 600VAC, 220 ohm 7 watt, 3 phase. Made by R-K Electronics. 1.5x4.7x3, #RCY6A-30, $12.00



R-C Network - 2mfd 600VAC, 100 ohm 3 watt. Made by Electrocube. 1.3x2.9x1.3, #RG1676-7, $9.95

R-C Network - 0.5mfd 600VAC, 220 ohm 1/2 watt. Made by Electrocube. 1.3x2.9x1.3, #RG1676-35, $9.75

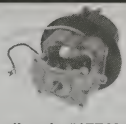
Hupp Vehicle Fan

12 VDC HUPP FAN with oscillating grill designed for use in cars, trucks, buses, RV's, etc where "extra" air movement is desired. Plugs into vehicle cigarette lighter and mounts on dashboard or other flat surface. White plastic enclosure has black grill and pivots on mount to adjust angle. Includes 4 ft cord and brackets. 5 x 9 x 3.4, 4 lbs. #HUPP-200-14, NEW, $12.00; 3 for $30.00

MANY ITEMS NOT LISTED - TELL US YOUR NEEDS

AC Motors

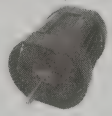
BODINE AC GEARHEAD MOTOR 200 RPM 1/7 HP 35 in/lb torque, counter-clockwise rotation; 115 VAC 60 Hz input. Shaft 1.3"Lx 5/8"dia w/ 3/16" square key. O/a 8.5"Lx5.6" dia; 14 lbs sh. #ECCI-35E200, used, $28.95



Ametek Shop Vac Motor. This is the very high speed motor used in some shop vacuums. Unit as pictured, motor only with small cooling blades. Shaft approx .5 inch long, 5/16 diameter. 5.3x4.6x4.6, 5 lbs sh. #17749-00, Unused, $12.95; 3 for $30.00

240 RPM 115 V 60 Hz GEAR MOTOR for intermittent use; starts @ 32 V approx 200 RPM. Increased volts increases torque. Gearhead extends 2.8" beyond motor; 1.1"Lx1/4" dia shaft. Motor 2.8x2.8x2.4 + 5/8"x3/16" dia shaft for fan on rear, 3 lbs sh. #MOL-2460, unused, $5.95

115 V AC-DC MOTOR, starts at 25 VDC, runs CW approx 7000 RPM 1/8 HP. 2.3x3x4.5 + 1.5"Lx0.4" dia spiraled shaft; 3 lbs sh. #AC-DC-H02, $3.00



208VAC 50/60Hz 3 Phase 3400RPM 440ma Blower Motor by Rotron. Has 3/8" diameter x 1 3/4" long shafts on each end. O/A 8x4x3.5, 9 lbs sh. #18935, Used, $20.00

GENERAL ELECTRIC REVERSIBLE FAN MOTOR, ball-bearing 115 VAC 60 Hz 1 amp 225 RPM motor. Use with fan blades unless cooled by other means. Has mount flanges and 5 mf capacitor; 4.5"Lx5.5" dia + 1.5"L x5/8" dia hollow shaft, 11 lb #5KCP39EGH210, new, $12.00; 2 / $20.00

PRINTER MOTOR ASSEMBLY, 24 VAC 60 Hz geared to about 4 RPM; can be wired for clockwise or CCW rotation. 2.8x2.5" dia motor on 3.8" sq metal plate; 2#. #MIZ-M0375R, used, $3.95; 3 for $10.00

DC Motors

6 to 24VDC Gear Motor by Globe. Rated at 54 RPM at 24VDC; 23 RPM at 12VDC; and 11 RPM at 6VDC. Originally designed for 24VDC. Removed from the AM-3349 amplifier. 1/4" diameter shaft x 3/8" long. O/A 4.2x2x1.6, 3 lbs sh. #5A2871, Used, $18.95

27.5 VDC REVERSIBLE PM GEAR MOTOR, 85 RPM no load speed, 1/4 duty cycle; estimated 75 RPM 100 oz/in torque when under load. Shaft 1/2"L x 5/16" dia with ear. O/a 4x1.3x1.3, 1 lb. GLOBE #5A1231, used, $14.95

DC MOTOR, operates over 10-15 VDC 100 ma 2375-2425 RPM with governor. Shaft 5/16"L x 1/16" dia; o/a 2.9 x 1.1. #AST-GK26, $8.00

28VDC 1.1 Amp Motor by John Oster Mfg. 12000 RPM. 1 oz. in. torque. 3/16" diameter shaft. o/a 4.8x2.3x3.3, 3 lbs sh. #BL-2-IS, Used, $7.95

MULTI-SPEED 24 VDC PM MOTOR can be wired for 11500 RPM 0.012 HP 0.7 amp or 3000 RPM 0.033 HP 2.3 amp operation; motor starts to turn at 9 VDC and is reversible. 6"x2.3" dia with 3.6" dia collar; geared shaft 0.6x0.4" dia. 3 lbs. Sperry mfg. #2960031, used, $8.95

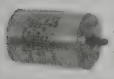
15 degree 4-PHASE VR STEP SERVO, 5 ohms 1.5 A; 28 VDC input pulse 3/4x 1/4" dia shaft; o/a 3x3 1/4x3, 2 lbs. sh. Made in Canada; removed from equipment. #20M34C1, $10.00

NORTHFIELD ELECTRIC or HAMILTON BEACH, 28.5VDC, 2800 RPM motor. 3.1 amp with 1/40 HP. 1/4" dia shaft with removeable gear x 1/2" long. o/a 4" x 2.3", 3 lbs sh., #1-1501, Used, $9.95

As above but 1/33HP, 3000RPM, 2.5A, #AWC-1000, $10.00

24-29VDC Motor by Globe Industries. No load ratings 60 RPM and 0.5 amp. Has removable cam on shaft. 1/4" diameter shaft. 5x1.5x1.5, 2 lbs sh. Used, #C5A1054, $14.95

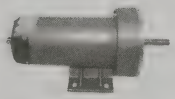
15 DEGREE STEPPER MOTOR from printer; requires +9 to +40 VDC. High speed & performance w/ driver circuit info. 1x1.3" dia shaft; o/a 5.8"x1.6" dia, 2 lbs sh.
2 ohm field, #RBM-2-62, $12.50
4 ohm, #RBM-4-62, $15.00
5.8 ohm, #RBM-6-62, $17.00



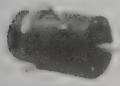
GLOBE 27 VDC MINI-PM MOTOR, p/o Collins 6I8T P-A; splined shaft 1/4"L x 1/8" dia; o/a 1.7"Lx0.9"dia. #41A205, used, $7.50

GLOBE 27 VDC 1/100 HP MOTORS, 2.5"IX1.3" DIA
11000 RPM, p/o ARC-45, #C-25A686, used, $7.95

160 RPM DRIVE UNIT w/ clutch has Globe C-25A512 27 VDC 15000 RPM motor and clutch assembly. Motor operates with good torque over 5 to 27 VDC. 160 RPM output on 3/16" dia x 1/2" lg shaft. O/A 3 1/4x 4 1/4x 3 1/2, 3 lbs. #160DRV/618, used, $8.95



HONEYWELL 90VDC, 1800 RPM motor. 9 amps at 1 HP. 5/8" dia shaft on each end. One side is 2 3/4" long with the other 3/4" long. o/a 15.8x6.4x6.9, 30 lbs sh., #SR3644-2509-7-56BC, Used, $125.00



JOHN OSTER SERIES MOTOR, 27 VDC 1/100 HP 7000 RPM. 3"Lx2" dia + 1"L x 1/4" dia shaft; 2 lbs sh. #C2BP1A, Unused, $3.95

MAGNETEK VARIABLE SPEED 3/4 HP DC MOTOR. 90 VDC 10 Amps 3450 RPM. Rated for CCW rotation comm end. 11.3 x 4.9 dia. 22 lb sh. #22254200, Unused, $150.00

Motor Start/Run Caps

MOTOR START AC ELECTRLYTIC. New not surplus.

110/125 volt

21-25mfd,	#MSC125V21,	$2.98
124-149mfd,	#MSC125V124,	$3.48
161-193mfd,	#MSC125V161,	$3.69
189-227mfd,	#MSC125V189,	$3.88
216-259mfd,	#MSC125V216,	$4.15
270-324mfd,	#MSC125V270,	$4.52
590-708mfd,	#MSC125V590,	$7.73

220/250 volt

21-25mfd,	#MSC250V21,	$3.69
30-36mfd,	#MSC250V30,	$3.91
53-64mfd,	#MSC250V53,	$4.83

MOTOR RUN AC METALIZED. New not surplus.

370VAC

2mfd,	#MRC370V2,	$5.90
4mfd,	#MRC370V4,	$6.46
5mfd,	#MRC370V5,	$6.68
7.5mfd,	#MRC370V7R5,	$7.41
10mfd,	#MRC370V10,	$8.05
15mfd,	#MRC370V15,	$13.68
25mfd,	#MRC370V25,	$16.38

440VAC

10mfd,	#MRC440V10,	$11.99
20mfd,	#MRC440V20,	$18.65
25mfd,	#MRC440V25,	$20.85

AC Capacitors

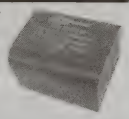
5 mf 220 V 1.8"diax4.5; cylind. #AC-5-220, $2.00
7.5 mf 260 V, 2.8x2x1.3, #AC-7.5-260, $2.00
3.5 mf 330 V 1.3x2.1x2.1; #AC-3.5-330, $2.50
15 mf 330 V, 2.2x2.9x4; #AC-15-330, $3.50
20 mf 330 V, 2.8x5x1.8; #AC-20-330, $4.00
21 mf 345 V, 3.7x1.8;twin lead #AC-21-345, $4.00
2.5 mf 360 V 1.2x2x2.6; #AC-2.5-360, $3.00
3 mf 370 V 1.3x2x2.7; #AC-3-370, $3.00
5 mf 370 V 1.3x2x2.7; #AC-5-370, $3.25
10 mf 370 V, 2.8x3x1.8; #AC-10-370, $3.75
4 mf 380 V 1.3x2x4; #AC-4-380, $3.50
35 mf 440 V 9x3.5x1.8; #AC-35-440, $7.00
7.5 mf 480 V 1.6x2.6x4.6; #AC-7.5-480, $4.00
21 mf 525 V 1.9x3.5x6.7; #AC-21-525, $7.00
18 mf 600 V 2.8x4.6x4; #AC-18-600, $7.00
27 mf 700 V, 9.3x4.3x2.7, 8 lb #AC-27-700, $7.50
5 mf 1000 V pk 2.8x6x2, #AC-5-1000, $3.50

Multi-Section Capacitors

The Multi-Section Capacitors listed below are unused by various mfg. To see a further listing of multi-section caps go to fairradio.com/multis.htm

MFD	Volts	Size	Part #	Price
300-100-80	150-150-150	2.5X1.3	#MULT-300,	$6.75
80-100-30-10	175-400-400-150	3.8x1.5	#MULT-80,	$7.00
75-75	300-300	2.5X1.3	#MULT-75,	$7.25
60-40-40	350-350-350	2.7x1.3	#MULT-60,	$7.50
40-30-10-50	400-350-300-25	2.5x1.3	#MULT-40,	$7.00
30-20-160-40	450-450-250-150	3x1.3	#MULT-30,	$7.00

Multi-Section HV Cap



High voltage and high current multiple capacitor network in a single package. Three sections are rated .05mfd 8KV, .02mfd 11KV, and .5mfd 1KV. Rugged epoxy housing. 2.8x2.3x1.8, 3 lbs sh. Various mfg. #221M230, Used, $10.00

CHECK OUT OUR LATEST FEATURE ITEMS AT FAIRRADIO.COM

Electrolytic Axial

All the Electrolytic Capacitors listed below are axial lead and are new.

16 volts

mfd	part #	price	4-9	10+
6800	ELE-6800-16	2/$0.70	$0.25	$0.23

25 volts

mfd	part #	price	4-9	10+
10	NEH10M25BA	3/$1.00	$0.31	$0.28
22	NEH22M25BA	3/$1.00	$0.31	$0.28
33	NEH33M25BA	3/$1.00	$0.31	$0.28
47	NEH47M25BB	3/$1.00	$0.31	$0.29
100	NEH100M25CB	2/$1.00	$0.43	$0.35
220	NEH220M25CC	2/$1.19	$0.55	$0.49
470	NEH470M25DD	2/$1.50	$0.71	$0.67
1000	NEH1000M25EE	$0.99	$0.95	$0.89
2200	NEH2200M25FF	$1.79	$1.69	$1.59
4700	NEH4700M25HF	$3.19	$3.09	$2.99

50 volts

mfd	part #	price	4-9	10+
1	NEH1.0M50AA	3/$1.00	$0.29	$0.22
2.2	NEH2.2M50AA	3/$1.00	$0.29	$0.22
4.7	NEH4.7M50AA	3/$1.00	$0.29	$0.22
10	NEH10M50BA	3/$1.00	$0.29	$0.24
22	NEH22M50BB	2/$1.00	$0.43	$0.35
33	NEH33M50CB	2/$1.00	$0.43	$0.35
47	NEH47M50CB	2/$1.00	$0.47	$0.43
100	NEH100M50CC	2/$1.39	$0.65	$0.59
150	NEH150M50	$0.99	$0.90	$0.77
220	NEH220M50DD	$0.99	$0.90	$0.77
470	NEH470M50EE	$1.19	$1.09	$0.99
1000	NEH1000M50FF	$1.75	$1.68	$1.57
2200	NEH2200M50FG	$3.09	$2.99	$2.89
4700	NEH4700M50JB	$5.29	$5.17	$4.99

63 volts

mfd	part #	price	4-9	10+
1500	ELE-1500-63	2/$1.20	$0.55	$0.50

160 volts

mfd	part #	price	4-9	10+
10	NEHH10M160CC	2/$1.59	$0.75	$0.69
22	NEHH22M160DD	$1.19	$1.09	$0.99
47	NEHH47M160ED	$1.64	$1.54	$1.44
100	NEHH100M160FE	$2.19	$2.09	$1.99
220	C-ET220-160	$2.50	$2.35	$2.15

200 volts

mfd	part #	price	4-9	10+
1	ELE-1-200	2/$1.20	$0.55	$0.50

250 volts

mfd	part #	price	4-9	10+
10	NEHH10M250CD	$0.99	$0.92	$0.82
22	NEHH22M250ED	$1.49	$1.44	$1.37
47	NEHH47M250FE	$1.94	$1.86	$1.75
100	NEHH100M250GF	$2.79	$2.69	$2.59
220	C-ET220-160	$4.95	$4.75	$4.50

300 volts

mfd	part #	price	4-9
1	ELE-1-300	2/$1.50	$0.70

350 volts

mfd	part #	price	4-9	10+
100	C-ET100-350	$3.50	$3.25	$3.00

450 volts

mfd	part #	price	4-9	10+
10	NEHH10M450ED	$1.27	$1.19	$1.10
22	C-ET22-450	$2.70	$2.50	$2.30
47	C-ET47-450	$2.95	$2.75	$2.50
100	C-ET100-450	$5.25	$4.95	$4.50

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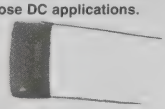
100mf 16V PC Mt, #ELE-100-16, 4/$1.00

Mylar

The MLR series is a range of radial lead non-polarized polyester film (Mylar) capacitors dipped in a hard epoxy coating material to provide excellent protection against moisture. These devices are intended for general purpose DC applications.



100 volt

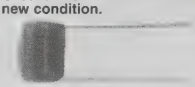
mfd	part #	price	4-9	10+
.0022	MLR222K100	3/$1.00	$0.29	$0.22
.0047	MLR472K100	3/$1.00	$0.29	$0.22
.01	MLR103K100	3/$1.00	$0.29	$0.22
.022	MLR223K100	3/$1.00	$0.29	$0.22
.047	MLR473K100	3/$1.19	$0.36	$0.29
.1	MLR104K100	2/$1.00	$0.46	$0.39
.22	MLR224K100	2/$1.39	$0.65	$0.59
.33	MLR334K100	$0.99	$0.89	$0.76
.47	MLR474K100	$1.05	$0.99	$0.92

630 volt

mfd	part #	price	4-9	10+
.001	MLR102K630	2/$1.19	$0.56	$0.52
.01	MLR103K630	2/$1.00	$0.46	$0.39
.022	MLR223K630	2/$1.00	$0.46	$0.39
.047	MLR473K630	2/$1.19	$0.55	$0.49
.1	MLR104K630	2/$1.39	$0.65	$0.59
.47	MLR474K630	$1.99	$1.89	$1.79

Orange Coating

All the Xicon Polypropylene (Orange Coating type) Capacitors listed below are in new condition.

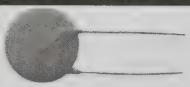


630V

MFD	Part#	Price	4-9 pcs	10&up
.001	X001	2/$1.00	$0.45	$0.39
.0022	X0022	2/$1.00	$0.45	$0.39
.0047	X0047	2/$1.00	$0.45	$0.39
.01	X01	2/$1.00	$0.45	$0.39
.022	X022	2/$1.00	$0.45	$0.39
.047	X047	2/$1.50	$0.69	$0.59
.1	X1	2/$1.50	$0.69	$0.59
.22	X2	$1.00	$0.95	$0.85
.47	X47	$1.95	$1.75	$1.50

0.33mf 100V orange drop, #OR-33, 2/1
0.1mf 200V orange drop, #OR-1, 2/$1.

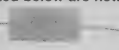
1KV Disc Capacitors



	Part #	Price	10-24	25+
3.3pf	9003D3	5/$0.99	$0.18	$0.16
5.0pf	9005D0	5/$0.99	$0.18	$0.16
10pf	90010	5/$0.99	$0.18	$0.16
20pf	90020	5/$0.99	$0.18	$0.16
47pf	90047	5/$0.99	$0.18	$0.16
68pf	90068	5/$0.99	$0.18	$0.16
100pf	DSC-100	7/$1.00		100/$9.00
120pf	90112	5/$0.99	$0.18	$0.16
200pf	DSC-200	7/$1.00		100/$9.00
220pf	90122	5/$0.99	$0.18	$0.16
330pf	90133	5/$0.99	$0.18	$0.16
470pf	90147	5/$0.99	$0.18	*$0.13*
680pf	90168	5/$0.99	$0.18	*$0.13*
820pf	90182	5/$0.99	$0.18	$0.16
1000pf	90210	3/$0.99	$0.29	*$0.19*
2200pf	90222	3/$0.99	$0.29	$0.24
4700pf	90247	3/$0.99	$0.29	*$0.19*
7500pf	90275	3/$0.99	$0.29	$0.24
0.01µf	90310	3/$0.99	$0.29	*$0.19*
0.050µ	90350	$0.99	$0.94	$0.88
0.10µf	90410	$1.29	$1.22	$1.14

Metalized Polyester

All the Metalized Polyester Tubular Capacitors listed below are new.



630 volts

MFD	Part #	Price	4-9 pcs	10&up
.001	PY001	2/$1.50	$0.69	$0.59
.0022	PY0022	2/$1.50	$0.69	$0.59
.0033	PY0033	2/$1.50	$0.69	$0.59
.0047	PY0047	2/$1.50	$0.69	$0.59
.01	PY01	2/$1.70	$0.79	$0.69
.022	PY022	2/$1.70	$0.79	$0.69
.033	PY033	2/$1.70	$0.79	$0.69
.047	PY047	2/$1.70	$0.79	$0.69
.1	PY1	$1.25	$1.15	$1.05
.22	PY22	$1.25	$1.15	$1.05
.47	PY47	$1.25	$1.15	$1.05
.68	PY68	$1.95	$1.80	$1.60

Misc Capacitors

2500mf 3V Can Type 3.5x1, #MC-2500, 6/$1
10mf 30V axial tant, #MC-10, 3/$1.
4.7mf 35V drop tant, #MC-47, 3/$1.
0.1mf 400V case ground, #MC-0.1, $2.
3.3mf 400V metal. poly prop. #MC-3.3,$2

FEED- THRU SUPPRESSION CAPS, ERIE 1202 1KV. #1202-(specify pf), used: 1000 pf 3/$2.25; 7000 pf 2/$2.

DIPPED MICA CAPS, +/10% 100v; 3/$1.00 #DIP-(specify pf),
pf: 18 22 27 33 82 150 220 470
2/$1.00; pf: 750 1000 1200
* 1800 pf 300 v. 3 / $2.50 *

RF Capacitors

CENTRALAB 850- TYPE "doorknob" capacitors, 0.5"H x0.8" di; Used, $6. #850-(specify pf),

10, 25, 28, 40, 50, 63, 67, 75 pf (7.5 KV) 80 pf (5 KV)

1200pf 5KV from Ceramite, epoxy make, same size as above. #CERA-1200, $6

- -

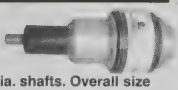
TYPE 857: 15KV, 40 or 50pf, #857-(specify pf), $10.00

33pf 15KV from HEC type HT57, same size & style as Cent. 857, #HT57, $10

150pf 2KV low profile doorknob, 1.4" diameter x 0.8" height, #RF534, $6.00

25pf 5KV from HEC type MT53, axial leads, #MT53, Unused, $5.00

Vacuum Capacitors



All Vacuum Variables listed below are 10-1000pf at 5KV and have 1/2" dia. shafts. Overall size 7.5" long x 2.8" diameter. Used high pot tested. 5 lbs sh.
Energy Lab, Ceramic, #EL5-1000-5,$189
Amperex, Ceramic, #CVC10/1K-5KV,$200
Jennings, Ceramic, #CVCH-1000-5,$210

3.5-7 pf 35 KV 4.3"Lx3" dia, 5 lbs sh. UNUSED, #CVA-7-5, $55.00

FIXED VACUUM CAPACITORS various mfg; used:
3pf 25 KV cer. ;3.3Lx0.8, #CY-3-25, $12
25pf 10 KV, 2.6Lx1.5, #JCS-2A-10, $15
12pf 20KV; 6.5Lx2.8, #VC-12-20, $14
150pf 20 kv; 3.3Lx2.3, #CFEA-150-7,$75

Brown Mica

JAN CM-size 1.8" x1.6". Used, $1.25:

MFD	WVDC	CM	Part #
.02	600	55	BM-02
.033	600	55	BM-033
.005	1200	55	BM-005

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CM	MFD	WVDC	Part #	Price
55	.0003	1200	BM55-0003,	$2.50
60	.0003	2500	BM60-0003,	$3.25
65	.0062	2500	BM65-0062,	$3.50
65	.01	2500	BM65-01,	$4.00

+ + + + + + + + + + + +

F1L-size MICA, 2.8x1.5x1:

MFD	WVDC	Part #	Price
0.006	2500	BM1-006	$4.00
0.0001	3000	BM1-0001	$4.00
0.0007	3000	BM1-0007	$4.00

F3L 0.007mf 500VAC, #BM3-007, $7.50

Transmitting Mica

G-SERIES TRANSMITTING CAPACITORS, used-good or unused as available.

G-1-type, 2.3"H x 2.8" dia; 3 lb $7.50

KV	MFD	Part#
1.0	0.04	1TM-04
1.5	0.08	1TM-08
1.5	0.039	1TM-039
6.0	0.0002	1TM-0002
6.0	0.00024	1TM-00024

G2, 3.5"HX3" dia, $12.00

KV	MFD	Part#
2.0	0.03	2TM-03
20.0	0.00005	2TM-00005

G3, 4"H x5" dia, $18.00

KV	MFD	Part#
2.5	0.15	3TM-15
10.0	0.00015	3TM-00015

G4, 5.5"Hx 5" dia. 8 lbs. $32.00

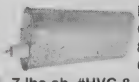
KV	MFD	Part#
4.0	0.084	4TM-084

HV Capacitors

Energy Storage Capacitors Non-PCB,

88MF 1.2KVDC, 10"Hx 4.5"Wx3.5"D, #HVC-88, 11 lbs. Used, $17.50

5MF 1KVDC, 6"Hx2.75"Wx 1.5" D, 3 lbs sh. #HVC-5, Unused, $7.50



Energy Storage Capacitor Non-PCB 8 mfd at 4KV Case Ground; 8.3x3.5x2 7 lbs sh. #HVC-8, Removed from equipment, $14.00

Computer Grade

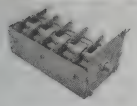
MFD	Volts	Size	Part#	Price
23000	7	5.5x1.5	CGC-7	$.60
28000	15	4.5x2	CGC-15	1.50
40000	20	4.25x2.5	CGC-20	1.75
19000	40	4.25x2.5	CGC-40	2.75
4900	50	3.5x1.5	CGC-50	2.00
3500	55	4x3	CGC-55	1.50
14000	75	6x3	CGC-75	4.25
1500	350	4.5x2.5	CGC-350	20.00

Buy 5 or more one type - take 20% off

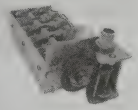
CLAMP for computer grades:
2" dia, #CL-2, 3/$2; 2.5", #CL-2.5, 3/$2.25

CALL US AT 419-223-2196 or 227-6573 24 HOUR FAX 419-227-1313

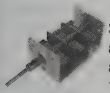
Air Variable



5 Gang Air Variable Capacitor covering 20 to 425pf per gang with a .02" air gap. Has a 3/8" diameter shaft x 1/4" long. Overall 6.4x3.2x2.8, 4 lbs sh. #5G-425, $16.00



Same ratings as above except has a removeable right angle drive which accepts a MC-124 tuning spline. Also has a longer shaft. With the right angle drive removed the shaft is 3/8" diameter with 1" length. #5G-425-GR, $17.00

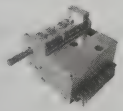


3 Gang, 4-25pf, 4-20pf, and 3-17pf. Air gap of around 0.03". 1.4"L x 1/8" diameter shaft. o/a 4x1.4x1.3, 1lbs sh. #3G-25, Unused, $6.00

SINGLE GANG 8-26 pf 0.06" air gap; 2.8" disc removes for 0.5"L x 1/4" dia shaft. W /four 1.8"H insulators. Capacitor 1.5x2.8x3.1 o/a #T7660443-8, used, $6.00

Single gang 6-35pf with screw driver adjust shaft. 500V or less. o/a 1.2x0.9x1.2, #1G-35, Unused, $1.25

- - - FM Tuner - - -



H-K FM Tuner with AM capacitors, one FET/two transistor oscillator; requires -12V. Shaft 1"L x 1/4" diameter; o/a 3.5x2.3x2.8, 2 lbs sh. Mfg by Alps. #FB113U13, Unused, $6.95

- -TRIMMER CAPACITORS - -

with screwdrive adjust shafts:

#C2-9, 2.5-9pf, 0.03" air gap		$1.25
#C653/R174, 2-11pf,	2 /	$1.00
#C2-16, 2-15.7pf,	3 /	$2.00
#C103/382, 4-23pf,	3 /	$2.25
#C5-25, 5-25pf, NPO	3 /	$2.50

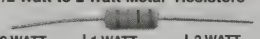
Sub-mini Piston Trimmer Cap 1.5-4.0pf 500V. By JMC mfg. #7666, Unused, $5.00

TRIM CAPACITORS. Screwdriver adjust. These dielectric film trimmers are used on PCBs, e.g. in radios. Suitable for industrial equipment thanks to their good stability. Rated for 250 volts. New, $0.99 each.

PF	Dia	Temp. Max.	Part #
3.3-33	0.30"	158F	#TRIM30P
5.5-40	0.39"	158F	#TRIM39P
5.5-65	0.39"	158F	#TRIM65P
5.5-80	0.39"	185F	#TRIM80P

Resistors

1/2 Watt to 2 Watt Metal Resistors



1/2 WATT 6 for $1.00 Ohms	Part #	1 WATT 5 for $1.00 Ohms	Part #	2 WATT 5 for $1.00 Ohms	Part #
1	HW1D0	1	1W1D0	1	2W1D0
10	HW010	10	1W010	1.8	2W1D8
47	HW047	100	1W110	10	2W010
100	HW110	180	1W118	18	2W018
120	HW112	300	1W130	47	2W047
220	HW122	510	1W151	100	2W110
470	HW147	1K	1W210	1K	2W210
1K	HW210	3.3K	1W233	2.2K	2W222
2.2K	HW222	10K	1W310	3.9K	2W239
4.7K	HW247	470K	1W447	10K	2W310
10K	HW310			100K	2W410
47K	HW347				
100K	HW410				
240K	HW424				
1M	HW510				

POWER WIREWOUND

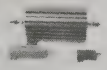
5 WATT 3 for $1.00 Ohms	Part #	10 WATT up to 1K ohm 3 for $1.15 Ohms	Part #	25 WATT 2 for $1.59 Ohms	Part #
0.1	5WD10	1.0	10W1D0	1.0	25W1D0
0.22	5WD22	2.0	10W2D0	2.0	25W2D0
0.33	5WD33	2.7	10W2D2	2.7	25W2D7
0.47	5WD47	3.3	10W3D3	3.9	25W3D9
1.0	5W1D0	3.9	10W3D9	5.1	25W5D1
2.2	5W2D2	5.1	10W5D1	6.8	25W6D8
3.3	5W3D3	6.8	10W6D8	8.2	25W8D2
4.7	5W4D7	8.2	10W8D2	10	25W010
5	5W5D0	10	10W010	15	25W015
10	5W010	15	10W015	20	25W020
22	5W022	22	10W022	27	25W027
39	5W039	27	10W027	47	25W047
47	5W047	47	10W047	75	25W075
100	5W110	100	10W110	100	25W110
330	5W133	150	10W115	150	25W115
1K	5W210	1K	10W210	220	25W122
4.7K	5W247			1K	25W210
10K	5W310			2.2K	25W222

10 Watt over 1K ohm 2 for $1.09

Ohms	Part #
2.2K	10W222
4.7K	10W247
10K	10W310
18K	10W318

Precision Resistors

DALE (or =) POWER RESISTORS metal-type:



Ohms	Watts	Tol.	Part#	Price
l.96	30	1%	PR-1.96	$2.00
12	100	5%	PR-12	$3.50
39	15	1%	PR-39	$1.00
43	250	3%	PR-43	$4.50
50	20	3%	PR-50	$1.25
1370	50	1%	PR-1370	$2.50
1400	120	1%	PR-1400	$3.50

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All the resistors below are 3 / $1.00

Ohms	Watts	Tol.	Part#
1.5	3.0	5%	PR-1.5
5	0.33	1%	PR-5
90	0.50	1%	PR-90
600	0.25	1%	PR-600
58K	0.50	1%	PR-58K
l.04M	0.33	1%	PR-1.04M

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Ohms	Watts	Tol.	Part#	Price
0.33	3	1%	PR-0.33	2/$1.00
3000	2	1%	PR-3000	2/$1.00
902K	2	1%	PR-902K	3/$2.25

Ohms	Watts	Part#	Price
1	100	RS-1	$1.00
1.5	3	RS-1.5	5/$1.00
1.67	35 flat	RS-1.67	3/$2.00
2.5	50	RS-2.5	$1.00
10	31 Dale	RS-10	2/$1.00
15	95 Dale	RS-15	$1.00
22	53 Dale	RS-22	3/$2.50
1100	17	RS-1100	2/$1.00
1600	43	RS-1600	3/$2.00
2000	43	RS-2000	3/$2.00
3000	68	RS-3000	$1.00
40M	2.5"L x .6"D	RS-40M	$5.00
80M	6.5"L x .6"D	RS-80M	$7.00

Slide Resistors

with variable slide adjust:

Ohms	Watts	Part#	Price
4	25 W + 4 fixed	SR-4	3/$2.25
20	25	SR-20	$1.00
50	160	SR-50	$2.50
100	150	SR-100	$2.50
250	200	SR-250	$3.00
500	160	SR-500	$2.50

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WARD LEONARD ENCLOSED 40 OHM 300 W vari-resistor; 600 V max. Fits 0.5" dia shaft. 3H x 6.5 #2130-40, $14.00

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DALE 70 WATT 5% 6- RESISTOR BANK, two ea 4 & 7 ohm, one ea 6 & 8 ohm; 6"Lx 3" H. #R6X70W, $4.50

Rheostats

First set of numbers after RHEO-prefix is wattage; your choice of ohms is second set. SCD= screw-driver adjust type. Style varies; USED or UNUSED:

#RHEO-25W-(ohms), $1.50 ea 6-scd, 7, 35-scd, 60-scd, 200-scd, 350, 400, 500,

#RHEO-50W-(ohms), $2.25 ea 0.5, 5, 8, 15, 18, 200, 225, 300, 375

DUALS, $4.00 ea:
#RHEO-D50W-16, Dual 16 ohm, $4.00
#RHEO-D50W-35, Dual 35 ohm, $4.00

#RHEO-DUAL, Dual 50/25 Watt 800/500 ohm, $4

#RHEO-150W-2, 2 ohm, $3.50

#RHEO-225W-3, 3 ohm, $4.00

#RHEO-300W-50, 50 ohm, 3 lbs. $8.

Potentiometers

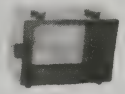
ALPS or = with switch; 5/8" dia + term. Shaft 1/4" dia. $1.00 each:
#POT-10K, 10K ohm
#POT-50K, 50K ohm
#POT-100K, 100K ohm

10-TURN PRECISION POTS, 1/4" dia shafts. 100 ohm 2.8"Hx1.8"dia. #A-R100-L25, $7

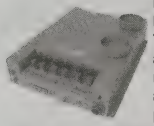
ALPS 10K ohm potentiometer with a pull on / push off DPST switch. 1/4" diameter shaft. Probably good up to 1/2 watt. Used, #N-800, $3.95; 3 / $10

Cases & Enclosures

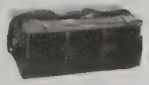
Black Aluminum Slope Front Enclosure. Top of slope stands 3 1/4" and the base of the slope is 1 3/8" tall. 4 7/8" deep x 8 1/4" wide. 3 lbs sh. Unused, #ENC-SLP, $7.00



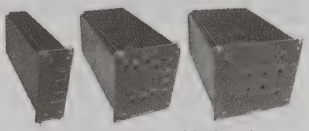
STEEL ENCLOSURE with metal feet and hasp fasteners. 6.5"Hx9.3"W x5"D; 5 lbs sh. Used. #ENC-RM-39, $3.00 ea; 2/$5.00



BZ-277A/G Project Box / Modem. This nice box is actually an old modem, but it has a nice power supply 5v, +12v, -12v. Also has 12 insulated military style push type connection terminals, 6 red/6 black. UTC audio transformers MTC-076 600 ohm 70 ma dc unbal to 600 ohms. =/- .75 db 300 - 4khz, 14.7x10.9x3.9, 10 lbs sh. #CS-277, Excellent condition, $15.00



INSTRUMENT CABINET for HP-test set; adapt to other uses. 7.6"H x 19"Wx9"D + 4"D cover less 1" overlap; three 6"Hx5"W compartments; w/fastners & strap; 17 lbs sh. #CS-HP3550, used, $27.00



Ideal enclosures for your next project! All items below are black aluminum chassis with dark grey front panels. The top and bottom of each of the units are heatsinked with 1/10" fins. The overall dimension of each unit is 9 5/8" deep x 5" tall. All enclosures have multiple 1/4" diameter holes on the front plate. They differ according to width. Used excellent.

1 15/16" Wide, 3 lbs sh, #ENC-4-2, $7.50
4 1/8" Wide, 4 lbs sh, #ENC-10-4, $10.00
5 9/16" Wide, 5 lbs sh, #ENC-8-6, $12.00

Low profile cast aluminum enclosure. Removeable top. Has some small holes. 5.8x2.5x1.6, 2 lbs sh. #LP-1 used, $4.95

Equipment Glides

Military quality for rack mounting; 2"W x 16.5"L; chassis slides have 19" travel. Load rating approximately 100 lbs; 6 lbs sh. #GL-1621, used, $13.00 per pair

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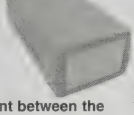
Enclosures & Cases

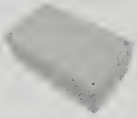
ALUMINUM SEALED DIE-CAST ENCLOSURE. These enclosures provide effective EMI- and RFI-shielding. The mounting holes and the screws for the lid are outside the sealed area, which prevents moisture and dust from entering the enclosure. New.

2.5" x 2.3" x 1.4", #G104, $5.74
4.5" x 2.6" x 1.2", #G106, $8.32
6.7" x 4.8" x 2.2", #G1201, $23.34
8.7" x 5.7" x 2.2", #G124, $25.30



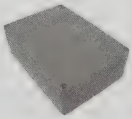
Molded Plastic in high-impact ABS, fire-retardant - dark gray. These cases in molded plastic have a two-piece design with a tongue and groove joint between the top and bottom half. Non-scratch surface with a high-quality finish. Guide slots are provided for vertical PCB mounting and slots make horizontal PCB mounting possible. New.

3.5" x 2.0" x 0.9", #G403, $2.28
3.5" x 2.0" x 1.3", #G404, $2.34
4.7" x 2.4" x 1.2", #G407, $4.42
4.7" x 2.4" x 1.6", #G410, $4.46
5.9" x 3.1" x 1.8", #G416, $6.26
7.5" x 3.9" x 2.4", #G421, $9.95



This plastic utility box is molded in impact-resistant ABS and has card guides spaced at intervals of 7.9" to allow flexibility in the spacing of the components or the creation of compartments. Guides will accept cards with a max. thickness of 0.06". New.

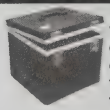
3.7" x 1.9" x 1.5", #G1068, $2.14
5.3" x 3.0" x 2.0", #G1098, $2.78



These enclosures consist of high-impact ABS (operating temperature : -4∞F to +212∞F). The lid and the base equipped with a tongue and groove sealing system with a neoprene gasket. The mounting holes and the attaching screws are outside the seals, which prevents moisture and dust from entering the enclosure. Internal guide slots allow the vertical mounting of PCB assemblies. The guides on the internal base allow the horizontal mounting of PCBs. New.

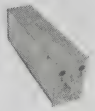
2.5" x 2.3" x 1.4", #G302, $4.08
4.5" x 2.6" x 1.6", #G304, $6.26
6.7" x 4.8" x 2.2", #G313, $10.82
10.4" x 7.3" x 4.0", #G378, $26.06

1LARGE ALUMINUM TRANSIT CASE with rounded corners, hasp fastners & carrying handles; 20.8"Hx28"Wx17"D including 6"H top. Spot welded compartments + 2 nesting trays; 66 lbs. #CY-3700/PRC-47, used, $28.00

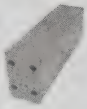


FIBERBOARD CASE with reinforced steel corners; black vinyl covered. Hinged with two twist-locking hasp fastners. Foam lined 12.x12.5x11 large compartment plus 3 smaller ones; o/a 18.5x 18.5 x17.5"H, 20 lbs sh. #CS-FIB1818, used, $17.50

Cast aluminum boxes for those RF and other projects where an inexpensive sturdy box is needed. Boxes have various late 1970's transistors and components and circuit boards. Used condition.



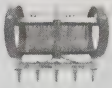
Cast aluminum box. 7.5 x 2.625 x 7.5 has sheet aluminum side panels and male DB9 connector. 2 lbs sh. #BOX68429, $5.00



Similiar to above but has 5 internal compartments seperated by cast walls. Four sections each 13/16 x 4 1/8 x 1 1/16 and one section 2 13/16 x 2 3/16 x 1 5/16. 2 lbs sh. #BOX295C, $6.00

Medium cast box 6 1/2 x 4 1/4 x 1 1/2 with provision for mounting circuit board at approx 3/4 inch depth. Two sheet aluminum covers. 3 lbs sh. #BOX641, $8.25

Coils



#C-447 coil for BC-610 xmitter 4.5"L x 4.5" dia; 3 lbs sh. UNUSED, $12.00

MO & PA TANK COILS from 10 to 12.5 KHz TU-10 TX tuners. Ceramic coil 5"Lx2" dia on 7"x3.1" mount bracket; #12 wire, 2 lbs sh. USED: #2697/TU10 PA; 1.35 uH, $4.00

RF MASTER OSC COILS: pull out of T-22 / ARC-5 7-9 MHz xmitter; #T53/6032, $4.00

Ceramic 2" Hx1.6" diameter base. #L101/ART13, $4.00

TELEPHONE PICK UP COIL p/o modem coupler; no info. 5/8x1.8" dia. #403-4, $l.00

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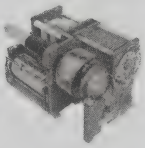
FERRITE CORE INDUCTORS PC mount; 7/8x 3/4" dia. #NV243, 123-177 mH, $1.50

Small Inductor, 1.5 mH, 1 ADC, 5V, 12KHz, .5 ohm DCR, PC mount. #80063, $1.95; 3 / $5.00

Roller Inductors

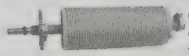
ROLLER INDUCTOR ASSEMBLY with 115 VAC 400 Hz motor drive, 3.4" lg x 1.75 dia coil; 28 turns #18 wire approx 14 uH with center tap. Designed to resonate antenna to a transceiver's frequency. 4.5x2.8x3.8, 5 lb used #T301/CU-99I, $7.50



ANTENNA LOAD ASSEMBLY from AM-3349/GRC-106 , includes C26 1000pf at 5KV vacuum variable capacitor, C27 15-355pf air capacitor, 26 1000pf feed-thru caps, L1 0.5 to 40UH variable inductor, L2 37UH fixed inductor, S1 2-deck 5-position ceramic switch and two Globe or = 24 VDC motors. 5.5 x 9.5 x 5.5, 10 lbs shipping. #3349-02, Used, $250.00

PLATE ROLLER INDUCTOR 26 turns #16 silver plated wire 3.7"L x 2" dia coil; 14.5 uH max. 115 VAC 400 HZ motor and 20K ohm multi-turn pot; will run on 26 V 60 Hz. Can be adapted to direct-drive. O/a 6.8x4x5, 3 lb #L13/ARC-58, used, $27.95

L5 ROLLER INDUCTOR, 26 turns #18 silvered wire 2"Lx1.1" dia coil: 8.4 uH max. 115 V 400 Hz motor drive like above; runs on 26V 60 hz. Adaptable to direct drive. O/a 6x3x4.75, 3 lb #L5/ARC-58, $12.00



ROLLER INDUCTOR KITS includes 4.4"L x 1.5" dia ceramic coil with 40 turns #14 silvered-wire, roller wheel, guide shaft & springs. 3/8" dia shafts have removeable pinned gear. End support plates not supplied; 3#
#L22-PRC-47, 22 uH, $16.00
#L35-PRC47,35 uh w/ part slug core $15
#L40-PRC47,40 uH w/ full slug core $15

Stepper Relays

LEDEX 28 VDC SOLENOID, 8-position 45 deg stroke. Start torque: 5 lb-in 35 W (15 lb-in holding) cont. duty; 32 lb-in 700 W 1/20 duty. 7S-size 2.8" dia x1.9" W; 1/2x3/8" dia shaft. 4 lbs. #S-8210-025, Unused, $4.95

Sensitive Relays

SENSITIVE RELAY SPDT 6 to 12 VDC 1500 ohms, contact adjust. 2.8x2.2x2.3 1 lb sh. #RM39/1901, used $1.50

Sealed SENSITIVE RELAY, 50 ohms 28 ma coil; DPDT contacts. Solder hooks; 1x1x2 1/4. #R400-2B-50, $2.95

ULTRA-SENSITIVE P&B 6 VDC DPDT RELAY, coil 500 ohm res. < 40 mv nom. power. Contacts rated 2 amp @ 28 VDC/120VAC; solder or socket mount. #R10-E1Y2SS500, Unused, $3.50

- - - RELAY SOCKETS - - -

10-BLADE Relay Socket for track mount of above; pressure screw terminals; 2.8x1.4x2., Weidmuller mfg. 1 lb. #RS-10, Unused, $2.50

P&B 4PDT RELAY SOCKET w/screw terminals, Rated 5 A 300 V max. #27E166, Unused, $3.00

- - - -REED RELAYS - - - -

4-REED RELAY CIRCUIT BOARD, 3 / 500 ohm & one 5K ohm 10-15 VDC relays; also a 26 VDC DPDT sealed relay. #792-312, $3.00

ELECTROL 5 VDC REED RELAY, low current SPST norm-open contacts; 0.7"x2.5"x0.6". #R4376-2, NEW, $2.25

- - - SOLID STATE RELAYS - - -

by Opto 22. 3-32 VDC Control, 5-60 VDC operating, 2.3 x 1.7 x .9, NEW, #DC60S5, 5 amps $8.50

Coil Forms

Small Ceramic Coil Form consists of 35 grooves in a 1.7" space. o/a 3.1"Hx1.1"dia. #CF-5, $2.50

Small Ceramic Coil Form consists of 10 grooves in a 0.5" space. o/a 1.7"Hx1"dia #CF-1, $2.00

3 pin Plastic Coil Form which fits BC-611. o/a 0.9" dia. x 1.9"H, #CF-3, 2/$1.00

Coil Form Assortment has: porcelain inductor core 1 7/8" tall 1 1/8" base has 4 mounting holes. The winding core has 41 grooves for wire 10 holes on flat edge. 3 small porcelain cores with 3 wire grooves. The base has a 6/32 threaded hole. #IND-K1, $2.75

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Standard Relays

OPEN FRAME RELAYS with heavy 10 amp silver contacts; mi-calex insulated. 1.8x2.4x1.8, 1 lb sh. USED-CLEAN:

DPST NO, coil 115 VAC 60 Hz 400 ohms, #22-4383, $14.00

DPDT, coil 6.3vac1 ohm, #22-4384, $16.00

DPDT ceramic, 28VDC coil. #1007-BF, $8.00

SPDT 9.6-15.8 VDC relay 206 ohm coil; used in GE mobile transceivers. For solder or socket connections. 1x1x3/4. #3SBW1001A2, Unused, $1.50 each. 24/$25.00

DPDT 12 VDC 800 ohm coil, 2 Amp cont; socket or solder. #R10-E1-Y2-S800, Unused, $3.00

DPDT P&B PLATE RELAY; sealed metal can, requries octal socket. 2.5x1.5x1.4, #KR-4175-1, Unused, $2.00

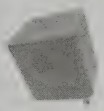
OMRON 3PDT RELAY, 24 V DC 650 ohm coil; 2 A contacts. 11-pin plug-in/solder lugs. 1 x 1.5 x 0.8; #OM-MY3, $2.00

P&B 3PST 120 VAC coil, 10 amp 1/4 HP contacts; clear cover, w/socket. #KU-4666, $3.25

4PDT 12 VDC 185 ohm coil, 2 A 29 VDC cont; w/ socket. 1.1x0.7x1.3; #TF154-CC, $2.00

DUAL DC COIL each 3PST; one 24 V, other 48 V. PC-mt. 2.8x1.5x1.3; #116-2601, $2.50

115 VAC 60 Hz COIL 25 amp @ 28 VDC/ 115 VAC contacts; solder terminals. 1.8x 3x1.8; #26S20/2054, Used, $4.00



K3 Relay removed from the T-368. 380 ohms 115VAC 60Hz. High voltage: SP-NC 2500VDC at 500ma. Low voltage: SPDT 500VDC at 10ma. #K3-T368, $25.00

See the web for other T-368 relays at www.fairradio.com/t-368.htm

Open frame relay 24VDC 230 ohm coil. 3PST N.O. 10 amps 120VAC / 5 amps 240VAC. SPST N.O. 1 amp 24VDC #DOUX-2055, $3.95

4PDT 48VDC 3700 ohm coil; 1x1.5x1.7, #MHX4069, $1.50

DOLLAR DAZE RELAY KIT, five mixed relays various voltages AC/DC. #DD-56-98, $2.00

Vacuum Relays

JENNINGS SPDT 26 VDC 270 ohm coil; 12 KV pk AC/DC 15 amps cont. W/ mount flange; 2.3"Hx1.5"dia, 1 lb. #RB-1H Used, $59.50

SPDT 335 ohm; 3.6 KV pk 18 A AC/DC. Max-open/release:6 ms. 1.3"Hx0.8" dia, used less hardware, #RJ1A-26S, $45.00

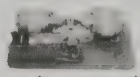
SPDT 8 amps at 2KV Jennings vacuum relay. 26 vdc, 920 Ohm coil. Mounts in 1/2" hole. 1.6" long. One terminal trimmed but usable. #RF1E-26N591,$25

SPDT VACUUM RELAY ASSEMBLY antenna transfer relay p/o Collins 180L3 antenna tuner; coil 28 VDC 38 ohms. O/a 5x6x2..3, 3#. #K712/180L3, used, $20.00

Vacuum Contactors

JENNINGS SPDT CONTACTOR RELAY, rated 1 KW @ 300 MHz, 3 KV test. Actuator 6 VDC. Has 4-pin Cannon power & three SC coax connections. 3.5x3.2 x4, 2 lbs. #RC47R6153M430, NEW, $75.

JENNINGS SPST VACUUM CONTACTOR for 3-1/8" (78 mm) dia hardline coaxial hook-up; rated 25 KW @ 30 MHz; 20 KV peak test; actuator 19-29 VDC. 4x8x3.8, 7 lbs. #RC10A5225A24, Unused, $99.00



JENNINGS SPDT RF CONTACTOR for high power transmit and process equipment. 26.5 VDC actuator switch rated 300 amps @ 2.5 KV peak; pk test 10 KV 60 Hz. Sealed enclosure w/ mount flange; connector not available. 5x 5.3 x9.5, 22 lbs sh. #RF20BLDE8I2I-I, $150.00

Contactors

CONTACTOR RELAY, 12 VDC coil & 12 V SPST norm-open contacts; 20 amp. 2x1.8x1.1; 1# #81-2450-1, $3. I0/$20.00

SIEMANS CONTACTORS, 80 VDC coils, 2 lbs. NEW: 2 NO+2NC; contacts 230/600 V 3/1 amps. Aux contact 10A 240 VAC; 2.8x1.8x1.8. #3TH12022 $6.50

8PST CONTACTOR, rated 660 VAC 6 amps; coil 80 VDC. 3x4.5x1.8, 2#. Schindler #MRG-44E, NEW, $14.95

24VDC CONTACTOR, SPST n.o. 28 VDC 50 amp contacts; 27 ohm coil. 2.5x2.7x 1.8, 1 lb. #MS24166-D1, $4.75

INTELLITEC SPST Latching type. 12 VDC 50 AMP contactor designed for use in RV's; flange mt. 3.5x 3.5x2.5; 1 lb #01-00055, $6.50

Coaxial Devices

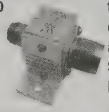
SPDT Microwave Switch designed for high performance in microwave systems to 12.4 GHz. Has three TNC connections. Requires 24-30VDC. 3x2.70.9, Jay-El Products. #D2-313B008, used, $40

SPDT Advance Metal Products Coaxial Relay. BNC connectors. 28 VDC coil. 1 lb sh. #10CSA1/2-18, Used $20.00

Coaxial Transfer Relay, 4 BNC connectors which switch from AD BC to AB CD. Allows a preamp or some other device to be switched into a coaxial line or bypassed. 24VDC coil. #10CSA2/2-01, used, $30

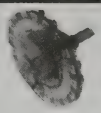
Miniature coaxial SPDT can relay for low level RF switching. Also has SPDT contacts. 26.5 vdc 675 ohms. HI-G d'italia #RFK 6396, $10.00

Same as above, but relay is in metal box with 6 very small coax connectors (SML ??) #RE-612-2, $12.00



Broadband Coaxial Protector by Polyphaser, has male to female type N connections. Frequency coverage is 50MHz to 700MHz. Maximum Power: VHF 375W; UHF 125W. 1.8x2.5x1.5, #IS-50NX-C1, Used Excellent, $25.00 ea.; 6/$100.

Rotary Switches



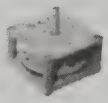
DAVEN-TYPE 18-POSITION, continuous turn; 2" dia. Zinc-silver contacts. 1/2x1/4" diameter shaft. #3Z9825-92.2, $3.00

FIVE-DECK ROTARY, each 2-pole 4-position; bakelite. 4x1.6" diameter; shaft 1/2x1/4" dia #SW-RM39, Used, $1.25

MINI-ROTARY, 1-pole 3-pos. shorting. 1" dia; 1/8" dia shaft. No hardware #LED-M13-S, unused, $1.50

ROTARY SW, 1.6" dia bakelite 3-deck 4P 2-pos, #SW-342, $2.00 2-deck 3P 3-pos, #SW-233, $2.00

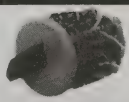
3-Pole 4-Position, #4-pos momentary; 1" dia bakelite. #SW-PRC-10, Unused, $1.50



TECH-LAB precision, 4 pole 7-position w/ gold-plated contacts; 2- poles 5 amp & two 3 A. Shft 1"Lx1/4" dia; o/a 2.3x2.3 x2.5, 1 lb. #TL-4P7PS, Used, $5.00

ROTARY SWITCH KIT, six types: multideck & contacts, #RS-KIT, $2.00

Tap Switches



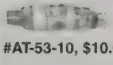
ELECTRO SWITCH TAP SWITCH, 9 Deck 3 Pole 3-positions: ABEFIJ-BCFGJK-CDGHKL per deck. Rated 7.5 amps 125 VAC; 7"Lx3.8" #ESI265096, Used, $15.00

Miniature Tap Switch, 1 pole 7-position rated 1 amp 1x1/2". #MTS-7, $2.00

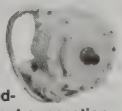
2-deck 4-pos continuous turn; 120/240 VAC 10/5 A. Shaft 3/16" dia, LESS knob. O/a 3"H. #LOV-230, Used, $2.50

THREE DECK 7-POSITION TAP SWITCH w/ screw terminals; 10 amp shorting contacts. 1.8x2.x3.1 + 1.3" x 0.3" dia shaft. #ES32303LM, $3.50

Attenuators

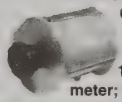


ELCOM ATTENUATOR, 10DB w/ SMA conn; Ag-plated, 1.5x0.5" dia. #AT-53-10, $10.00



VARIABLE 6-STEP ATTENUATOR, ladder network in 10:1 ratio. Attenuates 0.1 V down to 0.1 uv; 50 ohm impedance. BNC input & output connection; shaft 3/4"Lx 1/4" dia with gear drive. Silver-plated; p/o 0.01 to 50 MHz RF generator. 3.5x4.8x3.5, 4 lb #AT101/URM25, used, $19.00

Alan Industries Fixed Attenuator, 3.0DB at 30MHz and 3.3DB at 1GHz. Has a BNC male on one end and a BNC female on the other. #75SP3, $12.00



ROTARY TURRET 50 OHM COAXIAL ATTENUATORS from Empire NF-105 field intensity meter; to operate pull knob and rotate to next index. Mechanism is spring loaded to engage next attenuator element; 5"Lx3.4" dia, 5 lbs.

0-20-40-60-80 db with BNC female chassis connectors on 7.5" cables. #ATTNF105-0-80, Used, $24.95

40-50-60-70-80-90 db; female BNC chassis & male N conn on 7.5" cable, #ATTNF105-40-90, $19.95

One of each attenuator, #ATTNF-105-PR, $39.50

PLACE YOUR ORDER OVER THE WEB AT FAIRRADIO.COM

RF Switches

HIGH POWER RF SWITCH, 2 deck, 4 position, ceramic motorized RF switch with progressive shorting. Requires 12 to 19 VDC input. 7"D x 8.8"W x 12.5" H, 8 lbs sh., used nice condition, #PS-12, $125.00

6-POSITION CERAMIC RF TAP SWITCH for 100 W xmitter; 2.3x2.3x1.8, 1 lb. #3Z9605, $3.95;10 for $32.00

Mini Switches

Black= Blk. White= wh. NEW:

SPDT on-off-on, wh. toggle (b); Alco #MLD106E, $0.75

SPDT on-on, blk. rocker (c) JBT #MR2-123, $0.65

SPDT on-on, blk push-type Alco #MSP105D, $0.60

SPDT on-on 1-side mom; blk or wh push; #CK8168 $0.65

SPST black rocker (not mini) Carling mfg. #123, $0.60

SPDT mom push switch; C-NC-NO., C&K mfg. #8125, 2/$1.00

DP3T one side mom. (f) toggle; Alco #CST-023TA, 2/$l.00

DPDT on-on slide (h), #MINI-SL, 6/$1.00

SUB-MINI SLIDE SWITCH, SP 3-pos: #SLS-131PC, 4/$1.00

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Mini-Toggles, 120 VAC 6 A:
SPDT ON-ON, Used, #MINI-1, $.60
SPDT On-Off-On, Used, #MINI-2, $.75
DPDT On-Off-On, Unused,#MINI-3,$1.25

Misc. Switches

MICROSWITCH KIT, five SPST VARIOUS style. #MSW-KIT, $1.25

C&K KEY-SWITCH for electronic equipment; SPST 4 amp 125 V rated. Two keys; 5/8" dia, 1" depth. #CK-KY-SW, Unused, $4.00

ROCKER SWITCHES, 1.6"Wx0.6"Hx 1.3"D; mt flange 1.9"W
#0319, SPST, $0.39; 3 for $1.00
#0320, SPDT momentary both sides, $0.65 ea. 2 for $1.20

ROCKER DIP SWITCHES SPST for PC board use. Can be soldered or fit in socket. Grayhill mfg. 4 sw, Unused, #76SB04, $0.65 ea; 6/$3.00

KLIXON THERMOSTAT SPST 4 amp 250 V. Open @ 170°F +3 ; 20 differentil. 2.6" dia X 0.9"D. #C-2851-5, $3.00

--- LEVER SWITCHES ---

4PDT one side 2PDT other side, both sides mom. #1155, Unused, $2.00

Toggle Switches

Some single hole mount, some with mount plates; CH = Cutler Hammer, Unused unless otherwise noted:

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AIRCRAFT-type Toggle, two hole mt:
SPDT 5A/125V, #B-9A $1.00 (on-off-on)
DPDT 20A/125V, CH, #8710K3, $3.00
DPDT 20A/125V, CH, Radium tip on-on momentary, #3023-10B,$2.50
DPDT 20A/125V, CH, on-off-on, #8700K3, $3.50
SPDT 50A/125V, CH, on-off-on, #8854K2, $4.50

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INDUSTRIAL-type TOGGLES:
DPDT 10A/125V, CH, on-on momentary, #ST-52R, Used, $.60
DPDT 6A/125V AH&H, on-on; 1" mt barrel, 1/2" dia. white ball cap, #T-WB-87, $2
SPDT 6A/125V, Carling, #TG-CAR, $2.
DPDT 10A/125V, mfg CH, #ST-52N, $2.
3PDT 15A/125V, CH, #7614K2, $2.50
DPDT 6A/125V, CH, Bat Handle, #TG-B-CH, $1.75
4PDT 15A/125V, CH, Bat Handle, #TG-4PDT, $3.00
3PDT 15A/125V, CH, on-off-on, #TG-3PDT-3, $3.50
3PDT 15A/125V, CH, #TG-3PDT-2, $3.
3PDT 16A/125V, A-H&H, on-off-on, #TG-AHH, $3.75
DPDT 15A/125V, CH, Bat Handle, #TG-B-DPDT, $2.50

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LOCK-OUT SWITCH

DPDT on-off-on 40 amp Toggle Switch with lock-out one side. #8770K15, Unused, $7.00

Push Button

#67137-506, 13-button Push-on/Push-off; 8.8" W. $7.50

KLIXON 15 AMP PUSH BUTTON w/2.3" W mount flange; fits 1.4"x0.8"x 1.4"D hole. #43A8304, unused, $1.50

MICROSWITCH ALM-20 push-On/ push-Off SPDT switch w/red 5V LED; 0.9" sq x 2"D. #ALM-20-5V, $2.50

Crystals

JK02 Ovens for CR-26 xtal. 6 - 24 VAC / DC; plug into octal socket. Less xtals; Used, #251B1001 for one xtal, $2.25 #251B1003 for two xtal, $2.75

FT-241 XTAL SET for BC-604 (SCR-508/528) WW-2 xmitter 80 xtals (chan 0-79), #FT-241-SET, $85.00

200KHz FT-241 XTAL, #FT-241-200,$4

XTAL Socket Adapter for 2 xtals w/ 0.5" O.C. pins; octal base. #2Z307-166,$1.50

Baker's Dozen Crystal Socket Assembly, 13 ceramic crystal sockets CR-23 style mounted on an aluminum strip. 9"L x 1.2"W x 0.9"H, 2 lbs sh. #CR-23-13, $6.50

Circuit Breakers

AN-3161- style Push Button 5 amp breaker, 24-30 VDC; 2x2x0.8. #3161-5, $1.25 ea

TOGGLE 30 VDC breakers: #AN-3160-5, 5 amps, $2.75

E-T-A BREAKER, small 1.9"H x 0.8 x0.4 250 VAC 0.5 amp; ETA #41-06-P30 unused $1.95

AIRPAX BUTTON BREAKER rated 250 VAC/50 VDC 2.7 trip amp;2.4H x1.4Wx0.6"D. #PR11-1-2.00A-XX-V,$1.50

HEINEMAN AM12HK- type .5x2.8x2.3
32 VDC, 8 A, #AM12-8, $2.50
32 VDC, 20A, #AM12-20, $3.
60 VDC, 20A, #AM12-60,$3.50

HEINEMAN CD2 type breakers, ganged two pole. 4.8x2x4, 2 lb NEW #CD-2-Z74-2 , 10 A 132 VAC T.D. 2; 125 A 10 VDC T.D. 3. $2.75

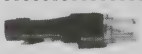
HEINEMAN PUSH RE-CIRK-IT, 5/8" dia "fuseholder-size"; 2.5 amp 50 VDC or 250 VAC. #KD1-2.5, new, $1.50

Fuse & Fuseholders

Large Industrial Syle Fuse by Gould - Shawmut Amp-trap Form 600, 175 amp 600 Volt AC-DC. 9.5"Lx1.5"dia. #600-175A, Used, $5.00

GE Type EJO-1, Model 9F60FJD100, Size D, 12" clip spacing, 100E Amp, 4800 V, 15.9"L x 3"dia, 10 ibs sh. #EJO-1, Unused, $19.00

3AG 1 amp Fused, #3AG-1FA, 10/$1 Slo-Blo 3AG 1 amp; #3AG-1SL,10/$1.25



LIGHT INDICATOR FUSEHOLDERS for 3AG fuses; 1.6"D behind panel. O/a 2.9"L; used: 22-33 V amber, #FU-HKX, $2.00 115 V, clear, #FU-HKL, $2.50

5AG / AGU In-line Fuseholder, #FH-5AG, Used, $2.00

Thru Panel Insulator

Large porcelain thru panel insulator. 9/16" diameter center hole. Has 6 threaded mounting holes on outer lip. Overall size is 5 1/4"Dia x 2 3/4"H. No Hardware. #INS-6, Used, $10.00

Insulators

Stand-off insulators crows feet type. Brass plated bases and terminals: D= Diameter H=Heighth M=Mount base holes' center distance ST=Screw terminals CT=Clamp terminals

#B-H3-D1.25-ST3, brown ceramic; M=2.25". Term. cap: 7/8x1 5/8" dia; 2 lbs. $2.75

#W-H5-D1.25-ST, white; M=2.625". Term cap; 3/8x 1 1/4" dia. 3 lbs. $3.75

#B-H5-D1.25-CT, white; M= 2.25". Term cap: 1x1 5/8" dia. 3 lb $4.00

#B-H7-D1.25-ST, brown, M=2.6", Term cap 1x1 3/4" dia; 3 lbs. sh. $4.75

Quanity Discounts on above! 10-25 ea (1-type) 20% off; 25% (26-99), 30% (100)

STAND-OFF with CLIP for clip-in resistors or capacitors. 1"H x 0.8" square insulator with clip for 0.5"dia cap, #NS4W1208, $1.50

PORCELAIN STAND-OFFS, no bases but screw threaded:

#P-4H-75D 4"Hx 0.75" dia; 8-24 threader. $.75 ea

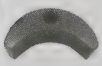
#P-7H-100D, 6.8"H x 1" dia; 10-24 threaded. $1.00 ea

INSULATOR POST for mounting capacitors, coils, etc. 1.7"Hx3/8" sq porcelain; 1/8" di thru-hole near top; base threaded for chassis screw. #IP-1706, 4 for $1.00

2"Hx1" square; two 6/32 threads top and bottom. #NL523W14, 4/$1.00

MP-48A INSULATOR for WW-2 vehicular spring antenna base; 3.6"Lx2.6" dia,4 lb. #INS-48A, $16.00

COLLAR for MP-48A, fits bottom of base, #COLL-48A, $2.50



Phenolic Insulator from MP-48, #IN-118, $7.50

Large porcelain insulator transformer style with a 3/16" feed thru hole. o/a 1.9"Hx1"dia. #INS-8, $1.00

Strain Insulator

EGG-TYPE PORCELAIN STRAIN INSULATOR, 1.3"L x1"x1"with two 1/4"di holes. #INS-EGG-95, NEW, $2.00

BROWN porcelain insulator 8.5"Lx1.8"h x 1"D with reinforced 0.5"dia hole on ends; 3lbs sh. #SPI-85181, $1.95; 2/$3.00

MANY ITEMS NOT LISTED - TELL US YOUR NEEDS

Bandpass Filters

TUNABLE TWIN-CAVITY BANDPASS FILTERS, gold-plated cavities have tune knobs, dials, and rear N-connections. Designed for military TRC-24 radio system for specific frequency ranges; usable and/or adapt for civilian purposes. 7x2.5 x9.5, 8 lbs. Used, $22.00 each.

#F-196, 184-205 MHz
#F-200, 254-284 MHz
#F-203, 344-374 MHz
#F-199, 224-254 MHz
#F-201, 284-314 MHz

#F-197, 205-225 MHz, unused, $30.00

#F-204, 374-404 MHz, unused, $19.95 ea; 2/$30.00

Line Filters

CORCOM EMI 3 AMP filter with solder connections. 115/VAC 50/60Hz. 2.7x1.7x1.2, used, #3W1A $1.50

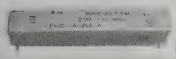
TOKIN 250 VAC 15 amps 50/50 Hz with spade terminals; 2.6"Lx1.8" dia, 1 lb. #VG-215F, NEW, $3.00

2x20 AMP FILTER, 115 to 250 VAC 48-440 Hz; 3.4x1.5x 3.2, 1 lb.
#F-85066, NEW $3.50; 10/$25.00; 100/$195.00

Bandpass Filters

F-1482/GRC BANDPASS FILTER, three 30-88 MHz tunable helical cavities with dial locks and 1.5" dia 0-60 Watt meter; switch for 6 or 60 W Phase, Reflected or Forward W. BNC output connection; special RF input connection. Rugged military design; 8.8x2.5 x9, 10 lbs sh. #F-1482, GOV'T-RECONDITIONED, $50; 3/$125

K & L Tubular Bandpass Filter. Six section filter. 26 MHz BW. 200 watts. VSWR = 1.5:1. Center frequency is 257MHz. 50 and 75 ohm impedance. SMA male connections on each side. 1 1/4" diameter x 6.8" long. 3 lbs sh. #6B110-257/HQ26-OP/OP, Used Excellent, $16.00



Bandpass Filter 2.0 - 3.15 MHz. 3"X3/4", #A-251-A, Unused, $5.00

Trompeter

Trompeter Cable, 10 inch patch cord with two gold plated trompeter PL150-29 mini patch plugs. Used good condition, #TRMP-1, $12.00

As above except 2 feet long. #TRMP-2, $14.00

Trompeter Adapter. Has two BNC female connections on one side through patch to two 50 ohm jacks. #J14T-50, Unused, $4.00

#LPW-75 Looping Plug. 75 ohms. Unused, $6.00
#J3W Patch Jack WECO-BNC, $5.00
#J13W-75 Sim J3W Self Term 75 ohm, $5.00
#AD1W BNC WECO Male Plug fits above, $5.00

Selectro Connectors

ADAPTERS

69-174-3264-000 BNC-M to SMC male on RG174 6" $10
50-675-6801-89 sma to BNC-F bulkhead nickel, $15
51-175-6801 snap on SMB 75 ohm bulkhead receptical BNC-F, $7
51-175-0069-22 BNC-F to SMB receptical bulkhead 5/16 hole gold, $7

SMA CONNECTORS

50-645-4547-31 jack receptical square chassis 4 hole flange mt, $2.50
50-647-4504-31 rt angle chassis 4 hole flange mt $2.50

SMB SCREW-ON

50-128-9511 crimp type 75 rt angle cable receptical small braided coax, $3.00
50-124-3059 crimp type 75 straight med coax gold $3
50-153-0000 75 pc mount right angle receptical, $2.60
50-151-0000 75 pc mount straight jack, $2.50
50-111-9511 75 rt angle cable plug clamp small coax braided wire gold, $3.00
50-128-0209 crimp type rt angle med coax nickel, $2.50
50-128-3059 crimp type rt angle med coax gold, $3
50-124-0189 crimp type straight plug med coax gold $3
50-107-3187 straight clamp type small coax gold, $3
50-107-3059 straight plug clamp type large coax gold $3

SMB SLIDE-ON BULKHEAD

52-144-0000 75 plug receptical type gold$2
52-145-0000 75 jack receptical front mt solder term.$2
52-126-2700 75 jack receptical rear mount crimp small coax, $2.50
52-126-3187 75 jack receptical rear mount small coax $3
52-126-0039 75 receptical rear mt med coax, $2.50
51-144-0000 75 rear mount plug recept. solder term. $2
52-126-0000 braided small coax 75 straight cable jack $3
52-126-0029 rear mt receptical very small coax $2.50
52-144-2700 receptical rear mount, $2.00

SMB SLIDE-ON CRIMP TYPE

51-124-3059 med coax 50 ohm cable plug gold,$3
51-126-2700 75 bulkhead jack recept. small coax gold $4
52-127-0000 75 cable jack braided coax small coax $3

SMB SLIDE-ON

52-146-0029 50 jack plug chassis mt solder term., $3
52-151-0000-220 75 pc straight jack receptical, $2.50
52-146-0000 chassis front mt recept. solder term.,$2

SMB SNAP-ON TYPE

51-151-0000 75 pc straight jack recept $2
51-127-0199 cable plug 75 recept bulkhead med coax $3
51-127-0000 crimp type small coax 75 bulkhead cable jack, $2.50

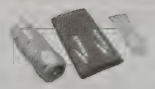
SMC TYPE CONNECTOR

51-010-0000-ai-1 snap on clamp type 50 cable plug braided coax, $3.00

Bead Terminal

5M75-A-1-9/RRH2H, 100 for $10.00; 300 for $20.00

Heliax Type N



Type N male connector by Andrew. Works with Heliax FSJ-50B coaxial cable. Comes with tubing for strain relief. Coupling torque is 22-25 in-lb.
#F4PNM-H, Unused, $17.00; 4 for $60.00

Coax Connectors

#PL-259 UHF Male, Generic, $1.10 each 10 /$10.00
#83-1SP-1050, PL-259 by Amphenol, $2.19ea; 10/$20
#83-1SP, As above but silver plated, $3.19ea; 10/$30
#SO-239 UHF Female, $1.10 each 10 /$10.00
#SH-SO239 barrel mount, $.85 each
#2H-SO239 2-hole mount, $.85 each
#PL-258 UHF Female to Female, $1.75 ea 10 /$16.
#M-358 "T" for two PL259 & one SO239, used, $1.50
#83-185-RFX, UG-175 reduces PL-259 to RG-58 coax, $.45 each; 10/$3.99

+ +

CONNECTORS & ADAPTERS: (m) male, (f) female, (bulk) bulkhead, (rec) receptable, (r/a) right angle; (U) = Used, (Un) = Unused.

TYPE BNC: UG-88m (RG-58) Used, $.75 ea
BNC (m) (RG-58) Amphenol, New, #31-2-RFX,$2.50; 5/$10
UG-260 m (RG-59) U $.60 UG-290 f panel U $1.
-274 "T" 2-f to m, U $4. -909 bulk U $1.
-273 to UHF, Un $2.00 -306 R/A adapter,
-282 to post $1.50 used, $1.75
UG-913 r/a U $1.00 -255 UHF-BNC $3.

BNC "T" like UG-274. Useful around the shop. Nickel plated. #274-T, Un, $3.00

TYPE N: UG-21 male (RG-8), Used, $3.00
Type N male (RG-8) Amphenol, New, #82-202-RFX, $5.35; 5 / $23.95
UG-22D male bulkhead (RG-11), Unused, $4.00
UG-58 f chassis U $2.50 UG-27 R/A m-f U $2.
-536 m (RG-58) U $2.00
-593 f bulkhead for R-59-62, used $1.50
-1052 f bulkhead for RG-58, used, $1.50

TYPE TNC: Gremar #6000 (m) used, $1.50 ea
#6177 m R/A Un $3. #6098 to N f bulk U $3.

TYPE HN: UG-59 U, $5.00 UG-920 m-f R/A, $6.
UG-100 m U $1.50 DA-113 dummy U $4.00
-109 f/ UG-100 $1.50 UG-643 "C" f-f, $2.50

R-390A Connectors:
Twin-Ax male, Amphenol, New, #82-5589-RFX, $9.95; 3 / $25.00
Mini-BNC p/o R-390A, #390A-MBNC, used, $2.50
As above but chassis, #390A-MBNC-CH, used,$2.50

AC Line Cords

Ground Fault Interupt (GFI) line cord, 12 ft 3-conductor #18 AWG; w/ reset button. #18-GFI, $2.50

3-COND LINE CORDS:

10 ft flat w/ R-A plug; #14 wire. #14-10FT, $2.50

BUSINESS MACHINE CORD, 3-blade type w/ AC plug; 6' black, 18 AWG. #HP-NS, $2.00

16 AWG 3-blade line cord; no AC plug. #16-HP-NP, $1.95

HEATER CORD type HSJ, 3-cond 7.5' #16 wire; grey molded R/A plug. #HSJ-16, $2.00

+ +

AC LINE CABLE ADAPTER f/ 3-cond plug to 2-cond outlet w/ground; grey. #53-90, 3 for $1.00

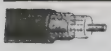
Hook-up Wire

Vinyl-covered hook-up wire, all stranded copper; no color choice. May not have continuous lengths over l000 ft. Allow 2 lbs sh weight per 100 feet

Part#	Gauge	Price		
HUW-12,	12	$12/100 ft	$99/1000 ft	
HUW-14,	14	$7.50/l00 ft	$48/l000 ft	$195/5000 ft
HUW-16,	16 SOLID	$4/100'	$24/1000'	$95/5000'
HUW-22,	22 SHIELDED	$3.50/l00'	$22/1K'	$75/5K'
HUW-26,	26 SOLID	$6/500'	$9/1000'	$30/5000'

CHECK OUT OUR LATEST FEATURE ITEMS AT FAIRRADIO.COM

Coax Cables



New manufacture to MIL-R-17A specifications. Prices PER FOOT for lengths indicated. In between lengths, use higher price. *Less than 100 ft add 10% to highest price!* #RG-58-(specify feet),

COAX	Ohms	100 ft	500 ft	l000 ft	5000 ft
RG-58	53.5	.17	.16	.15	.15

+ +

COAX CABLES with connectors from military equipment. USED/UNUSED:
#CG-409 CABLE, 25 ft RG-58 with two BNC, $4.50
#RG-213-1, 16" RG-213 coax w/ R/A N conn. $5.
#CG-3444, 42" RG-214 w/ 2 UG-573 "C" conn., $9.
#A303892-10, SMA (m): TNC (f) 8" jumper; $4.50

RG-142 Cable 3' 3" long with type SMA screw on male going to a type N female on the other. The type N female does not have any nuts. Cable is rated for 50 ohms 5000 volt. Diameter of the cable is similar to RG-58. Various manufacturers. 2 lbs sh. #RG-142-3, Used excellent condition, $6.50

- - - TYPE N - SMA CABLES - - -

From cellular installation:

Type N male to SMA male w/ 12" coax. #N-SMA-12, $3.50

Type N male to R/A N male w/ 29" coax. #N-RAN-29, $2.95

Type N female to SMA male w/ 33" coax. #FN-SMA-33, $3.75

Male BNC to male BNC with gold center pin connectors on a 8 foot long 1/16" diameter coaxial cable. Pinkish cable is marked type CTCFT4. We are unable to find any further specs on the cable. Mfg by Harbour Industries. 1 lbs sh. #CTCFT4, Unused, $10.00 each; 2 for $16.00

BNC male to right angle BNC male six foot RG-58 coaxial cable. #CG-1773, Unused, $5.00; 6 for $20

W-128 Single conductor antenna wire as used on many radio sets from WW2 thru the 1970's. Removed from installation kits, good condition.
#W-128-5, 5 feet, $8.00
#W-128-9, 9 feet, $12.00

Hardline Coax

Hardline 50 ohm Coax, 3/8" dia aluminum jacket, foam insulated. 9 gauge center conductor. 3/32" dia solid copper wire. 25pf per foot nominal impedance, impedance 50 ohms, 2500 vrms:
#HLCX-3/8-(specify feet),
$.65/ft; 100 ft/$56.00 500 ft/$225.00

+ +

MINI-FLEXIBLE HARDLINE COAX CABLE, Belden 1573A (RG-402 50 ohm) with SMA connectors.
M =male, F=female, RA=right a ngle

#507-169/170A, two M, 5" Length, $9.00
#507-173A, M-RA to M, 11.5" L, $11.00
#507-175A, M to F N-chassis conn, 8"L, $12.00
#507-176A, two M-RA, 3.1"L, $12.50

+ +

0.5" dia FLEXIBLE HARDLINE (Cablewave 16733) with male N-connections (1-right angle); Various lengths as noted; 5 lbs sh. #HDL-16733- (length):

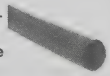
6 ft, $18. 10 ft, $22.
12 ft, $24. 15 ft, $30. 22 ft, $40.

Heatshrink Tubing

4 Foot NTE Heat Shrink Tubing. Shrink Temperature: 120C. Shrink Ratio - 2:1. Example - 1/16" shrinks to 1/32". Comes in four colors: Black - "BK"; Clear - "CL"; Blue - "BL"; Red - "R". New.

1/16", #47-20148-(Specify Color), $0.87
1/8", #47-20348-(Specify Color), $0.91
1/4", #47-20548-(Specify Color), $1.30
3/8", #47-20748-(Specify Color), $1.56
1/2", #47-20848-(Specify Color), $2.02
3/4", #47-20948-(Specify Color), $2.16
1", #47-20848-(Specify Color), $3.71

1/16" black Polyolefin. 90Θ C shrink temp. Made by Sumitomo. #11438-(specify feet).
10ft $3.50; 25ft $7; 50ft $12; 100ft $20



3/8" Dia. Alpha Irradiated PVC Heat Shrink Tubing, For wire harness jacketing and covering handles, capacitors, and terminals. Rated 105 degree C. 2:1 shrinkage ratio at 175 degree C. 3/8" diameter.
#FIT-105-3/8, Unused, 10 ft for $4; 25 ft for $7.50

Cutters & Strippers

UNIVERSAL CUTTER - HEAVY-DUTY. 6.5" long. #VT09, $4.19

HQ MINIATURE DIAGONAL CUTTER. Carbon steel, hardened. Black oxide finish. 4.3" long. #VT057, $2.69

MICRO CUTTING NIPPERS. For precision work. 5.1" long. #VT100, $2.99

HEAVY DUTY MINIATURE DIAGONAL CUTTER. Carbon steel, hardened. Black oxide finish. 4.9" long. #VT106, $2.99

CABLE CUTTER. Curved blade cuts wires up to 0.4". 6.5" long. #VTCC, $7.18

5"
ELECTRICAL CUTTER & STRIPPER. Strips wires from 20-24 AWG and cuts wires with a max. ÿ of 0.05". 4.7" long. #VT109, $4.99

Adjustable Cutter/Stripper. Strips AWG 30-10 wire. Adjusts with a screwdriver. High carbon steel. Precision ground cutting surface. #200-007, New, $4.69

Precesion Wire Stripper. Plier type nose. Cutter jaws. Soft grip handles. Spring return. New.
For AWG 22, 20, 18, 16, 14, 12 & 10, #200-010, $7.99
For AWG 30, 28, 26, 24, 22, 20 & 18, #200-001, $9.29

Cable Ties

All nylon ties listed below are common locking type and are standard 0.19"width.
#CT-12, bright pink 11.5" long, 25 for $2.25

As above except 0.12" width.
#CT-5.5, Black 5.5" overall length, 50/$4.; 100/$6.50
#CT-5, Natural 5" overall length, 50/$4.; 100/$6.50

As above except 0.06" width. Bundle dia. is 5/8".
#CT-4, Black 4" overall length. 50/$3.00; 100/$5.00
#CT-4.5, Natural 4.5" overall length. 50/$3.; 100/$5.

Tie-Down Nylon Cable Tie - Ideal for fastening wiring or harnesses to chassis or mechanical assemblies. Accepts #10 screw. Maximum bundle diameter of 1 1/4". Overall length of 6". Standard 0.19" width.
#TCT-6B, Black color, 50/$5.50; 100/$8.00
#TCT-6N, Natural color, 50/$5.50; 100/$8.00

Wire Galore !!

#22 Cloth Covered Stranded Hook-up Wire. Color choices: red, red/black, red/green, red/white, orange, orange/black, orange/green, orange/red, blue, blue/white, green, green/black, white/red/blue, black. PLEASE SPECIFY. #WCC-22-(specify color)-(specify feet), $3.95/10ft, $5.95/25ft, $16.95/100ft

Twisted two conductor 22 gauge stranded cable with tin shield. 19 strands per conductor. Has white plastic jacket. Mfg by Brand-Rex. #WT-22, $29.95 for 500 foot spool

Twisted Twin-Axial RF cable with braid silver shield. Both conductors are 24 gauge with 19 strands per conductor. Cable rated at 77 ohm impedance. Light blue jacket. #WT-24-(specify feet), $25.00/100ft; $95.00/500ft

Three conductor 22 gauge with shield. White vinyl covered. 500 foot spool, #WIRE-22-3, $20.00

24 gauge single conductor stranded wire with shield. Has white jacket. #W-1, $10/100ft; $32/500ft; $55/1000ft; $195/5000ft

20 gauge stranded vinyl covered white colored hook-up wire. 500 foot spool, #WIRE-20-ST, $14

As above except 14 gauge, 500 foot spool, #WIRE-14-ST, $24.00

As above except solid 16 gauge, 1000 ft spool, #WIRE-16-SO, $32.00

As above except solid 22 gauge, 1000 ft spool, #WIRE-22-SO, $18.00

HV Wire 15 KV 16 gauge 19 strand gray w/ red tracer. 20 feet #WRHV-16-20, $5; 100 feet #WRHV-16-100,$17

20 gauge shielded 19 strand light gray. Mfg by ITT. 20 feet #WRHV-20-20, $4;100 feet #WRHV-20-100, $12

SDU-5 Wire Kit

Wire Kit provides parts to connect an SDU-5/E flasher to a vehicle (12/24V) battery or wiring. Kit includes the following: Voltage Converter, Adapter, (2) 3/8" Ring Lugs with Wire, (2) #8 Spade Lugs with Wire, (2) Battery Clips with Wire, (4) Connector Splices, (4) 3/8"-16 Nut. (2) 11.5" Cable Tie, 7.25" Cable Tie, and a Velcro Strip. 3 lbs sh.
#CK-SDU, Unused, $10.00; 3 for $25.00

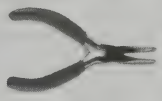
CALL US AT 419-223-2196 or 227-6573 24 HOUR FAX 419-227-1313

Pliers

UNIVERSAL PLIERS - HEAVY-DUTY. 7.5" long. #VT03, $4.69

HEAVY-DUTY LONG NOSE PLIERS. 6.0" long. #VT05, $4.99

HQ MINIATURE FLAT NOSE PLIERS. Carbon steel, hardened. Black oxide finish. 4.9" long. #VT054, $2.69



HQ MINIATURE BENT NOSE PLIERS. Carbon steel, hardened. Black oxide finish. 4.9" long. #VT055, $2.69

HQ MINIATURE LONG NOSE PLIERS. Carbon steel, hardened. Black oxide finish. 4.5" long. #VT056, $2.69

TOOL SET / 5PCS DIFFERENT PLIERS. Stainless-steel precision pliers set (5 pcs) : diagonal cutter, top cutter, bent nose pliers, flat nose pliers, long nose pliers. #VTSET, New, $9.99

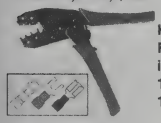
COMPACT MULTI-PURPOSE PLIERS - LOW-COST. Multi-purpose pliers: pliers, cutter, screwdriver, saw, etc. 3.9" long (closed). With carrying bag. #VTMPPLC, $8.95

MINI COMPACT MULTIPURPOSE PLIERS WITH HANGER. 12 functions: slotted head screwdriver, small knife, flat metal tool for nail polishing, bigger knife, opener, philips and slotted head screwdrivers, scissors, keychain, slotted contact screwdriver, tool for turning the nut, and tool for working with cable. 2.6" long (closed). #VTMPP4, $6.95

COMPACT MULTIPURPOSE PLIERS - 28 IN 1. Universal pliers, awl, knife, saw, bottle opener, scissors, 12 bits, etc. Made of stainless steel. Comes with belt bag. #VTMPP3, $17.95

Crimping Tool

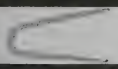
80-PC TRAY CARD WITH CRIMPING TOOL. Crimping tool comes with a variety of different spade terminals, ring terminals, etc.. #BL/FCT, New, $5.92



HEAVY-DUTY CRIMPING TOOL FOR FAST-ON. For crimping insulated terminals red awg 22-18, blue awg 16-14, yellow awg 12-10. 8.7" long. #VTHCT,$25.98

CRIMPER by Thomas Betts with 13470 green die, and 13471 blue die. With metal carrying case, used excellent, #TBM6, $195.00

IC Extractor



IC EXTRACTION TOOL. 4.1" long. #VTIC, $1.98

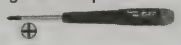
Tuning Needle Set

6-PC PLASTIC TUNING NEEDLE SET. Comes with a variety sizes. #VTPT, New, $3.99

Screwdrivers

SCREWDRIVERS

HANDLE: Swivel-handed cap and color-coded caps for easy identification. User-friendly grips for improved comfort. Special handle for good torque. BLADES: Nickel-chrome molybdenum. Black oxidized tips for greater durability and accuracy. Plated blade to reduce glare and reflection. Horizontally ground tips for greater torque.



Philips type:
#0, 4.7" long, #VTC1, $1.65
#0-3, 6.7" long, #VTC2, $1.65
#1, 10.0" long, #VTC3, $1.99

Slotted type:
0.06", 4.7" long, #VTF1, $1.98
0.09", 6.7" long, #VTF2, $1.98
0.14", 8.1" long, #VTF3, $1.98

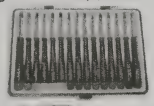
ELECTRONIC SCREWDRIVER SETS

Ideal for TV sets, communication instruments, optical instruments, cameras, computers, VCRs, telephones, etc.

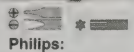
Slotted: 0.04", 0.06", 0.09", 0.12". Philips : PH#0, PH#1. 4.1" long. #VTSET1, $2.99
Slotted: 0.05", 0.08", 0.09", 0.12". Philips: PH#0, PH#1-2. 4.7" long. #VTSET2, $10.99

Torx: #T6, #T7, #T8, #T9, #T10, #T15. 4.7" long. #VTSET3, $11.98

Ball: 0.05", 0.06", 0.08", 0.10", 0.12". Hex: 0.04". 4.7" long. #VTSET4, $13.98

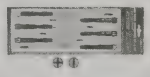


Slotted: 0.08"x1.6", 0.10"x1.6", 0.12"x1.6", 0.14"x1.6". Philips: PH#00x1.6", PH#0x1.6", PH#1x1.6". #VTSET13, $3.50



Slotted: 0.12"x1.6", 0.08"x1.6", 0.10"x1.6", 0.14"x1.6", 0.16"x1.6". Philips: PH#00x1.6", PH#0x1.6", PH#1x1.6", PH#2x1.6". Torx: #T6x1.6", #T8x1.6", #T9x1.6", #T10x1.6", #T15x1.6", #T20x1.6". 4.7" long. #VTSET15, $7.95

Chrome vanadium steel blade, satin finish. Lengths: 4 x 6 1/2" and 11 x 4 3/4". Torx: #T6, #T7, #T8, #T9, #T10, #T15, #T20. Slotted: 0.08", 0.10", 0.12", 0.16". Philips : PH#000, PH#00, PH#0, PH#1. #VTSET16, $13.95



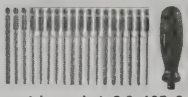
Black oxidized tips. Plastic handle with swivel-headed cap. Slotted: 0.09"x3.0", 0.12"x3.9", 0.16"x5.9". Philips: #00x3.0", #0x3.9", #1x5.9". #VTSCRSET, $9.95

Chrome-vanadium. Fully insulated. Red plastic grip. Slotted: 0.10, 0.12, 0.14 2 Philips. #VTSCRSET5, $1.99

Includes voltage light tester (110-500V). Slotted: 0.24"x5.9", 0.20"x4.9", 0.16"x3.9", 0.16"x3.7", 0.10"x3.0". Philips: PH#0, PH#1, PH#2. #VTSCRSET1, $3.95

Includes voltage tester with neon indicator (230-250V). Fully insulated (1000V). Slotted: 0.16"x3.9", 0.22"x4.9", 0.26"x5.9". Philips: PH#0x3.0", PH#1x3.9". #VTSCRSET7, $9.99

SECURITY SCREWDRIVER SETS



Contents - 1 x quality handle. 6 x inch socket: 5/64"x105, 3/32"x105, 7/64"x105, 1/8"x105, 9/64"x105, 5/32"x105. 6 x metric socket: 2.0x105, 2.5x105, 3.0x105, 4.0x105, 5.0x105, 6.0x105. 4 x tri-wing: #1x105, #2x105, #3x105, #4x105. 1 x cross: PH2x105. 1 x flat: 2.0x105. Comes in a plastic case. #VTBT7, $28.99

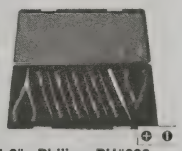
Contents - 1 x quality handle. 7 x torx: T8x105, T10x105, T15x105, T20x105, T25x105, T27x105, T30x105. 3 x four-wing: 6x105, 8x105, 10x105. 4 x U-shape: 4x105, 6x105, 8x105, 10x105. 1 x cross: PH0x105. 1 x flat: 3.0x105. #VTBT8, $24.99

PRECISION SCREWDRIVERS (MICROTIP)

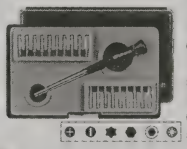
Special handle with swivel cap. Black tip, chrome-molybdenum vanadium steel. Features - ROTATING HEAD: to facilitate support and rotation control. HANDLE: varying diameter for flexible grip position and torque high impact resistance, cadmium-free material, easy to recycle. TAPERED GROOVE: for better grip and faster rotation. BLADE: made of high-quality alloy chrome-vanadium steel, heat-treated. BLACK TIP: for high precision, protection from corrosion. COLOR CODED: for quick size selection. METAL BALL: for easier operation.

Slotted: 0.08"x2.9", 0.10"x2.9", 0.12"x2.9", 0.14"x2.9", 0.16"x2.9". Philips: PH#0-0x2.9", PH#0x2.9", PH#1x2.9". #VTSET11, $19.95

Torx: #T5x1.6", #T6x1.6", #T7x1.6", #T8x1.6", #T9x2.9", #T10x2.9", #T15x2.9", #T20x2.9". #VTSET12, $ 19.95

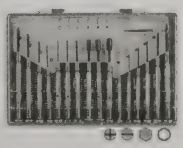


SET OF 2 PLIERS, TWEEZERS AND 8 SCREWDRIVERS (MICROTIP). 4" long nose pliers. 4" diagonal pliers. 4.9" tweezers. Slotted: 0.05"x1.6", 0.06"x1.6", 0.07"x1.6", 0.08"x1.6", 0.09"x1.6". Philips: PH#000, PH#00, PH#0. #VTSET14, $37.95



ELECTRONICS BIT SET (19PCS) WITH SCREWDRIVER (MICROTIP). 20-pc precision bit set. Philips: PH#0-0, PH#0. Slotted: 0.08", 0.10", 0.12", 0.16". Torx: #T6, #T7, #T8, #T9, #T10. Hex : 0.06", 0.08", 0.10". Ball: 0.06", 0.08", 0.10". Pozzi: PZ#0-0, PZ#0. #VTSET9, $19.95

TOOL SET. Ideal for TV sets, communication instruments, optical instruments, cameras, computers, VCRs, telephones, etc.



Swivel-headed cap. Black oxidized tips for greater durability and accuracy. PRECISION SCREWDRIVERS - Philips: PH#1-1, PH#1-2, PH#0, PH#0-2. socket : 0.12", 0.16", 0.20". Hex: 0.06", 0.08", 0.10". Slotted: 0.04", 0.06", 0.08", 0.09", 0.12", 0.15". #VTSET5, $4.95

10-PC SCREWDRIVER SET. The bitholder has a holder for bits on both sides. Comes with 10 bits: 2 x slotted, 2 x philips, 3 x hex and 3 x torx . #VTTS2, $1.78

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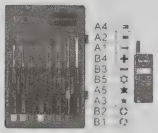
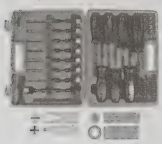
Tool Kits

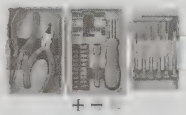
41-PC TOOLSET. Head can be set at an angle of 0∞, 45∞ or 90∞. 38 bits: 14 hex sockets, 16 torx bits, 3 slotted, 3 philips and 2 S-bits. With plastic carrying case. #VTTS3, New, $6.95



UNIVERSAL CELLULAR PHONE TOOL KIT. Screwdrivers: U-shaped, curved, needle tip, 1 x philips, 1 x slotted, 3 x torx and 2 antenna removers. With colored swivel caps. #VTSET8, New, $19.95

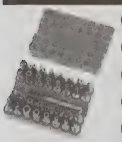


FLEXIBLE EXTENSION SHAFT 7.5". PRECISION SCREWDRIVERS - slotted: 0.08"x3.0", 0.10"x3.0", 0.12"x3.0", 0.16"x3.0". Philips : 0.10"x3.0" PH#00, 0.12"x3.0" PH#0, 0.16"x3.0" PH#1. HANDLE SCREWDRIVERS - Slotted: 0.16"x3.0", 0.20"x3.0", 0.24"x3.9", 0.31"x5.9". Philips: 0.20"x3.0" PH#1, 0.24"x3.9" PH#2. BITS: T10, T15, T20, T25, T27, T30, T40, H2, H3, H4, H5, H5.5, H6. 1/4" SOCKETS: 0.20", 0.24", 0.28", 0.31", 0.35" + 1/4" socket holder. BIT HOLDER: 2.8". #VTSET19, New, $9.99

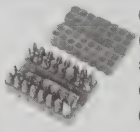


25-PC TOOLSET. 4.5" long nose pliers. 4.5" side cutter. Stainless-steel tweezers. 1.4" sockets : 7, 8, 9, 10. Magnetic screwdriver: 1.0". Bits: slotted 0.12", 0.20", 0.28"; philips #1, #2, #3 (0.98") ; torx #T10, #T20, #T30. 6 precision screwdrivers : slotted and philips. Carrying case: 6.1" x 3.9" x 1.9". #VTTS, $8.99

Bit Set



SECURITY BIT SET / 33 PCS. Contents - Torx: #T8, T10, T15, T20, T25, T27, T30, T35, T40. Hex: #5/64", 3/32", 7/64", 1/8", 9/64", 5/32". Hex: #2, 2.5, 3, 4, 5, 6. Tri-wing: #1, 2, 3, 4. Fork: #4, 6, 8, 10. Four-wing: #6, 8, 10. Magnetic bit holder: 1/4" hex. #VTBT5, New, $9.99



BIT SET / 33 PCS. Contents - Hex: #2, 2.5, 3, 4, 5, 6. Torx: # T10, T15, T20, T25, T30, T40. Slotted: 3, 4, 5, 6, 7. Philips: 1 x PH0, 2 x PH1, 3 x PH2, 2 x PH3. Pozzi : 2 x PZ1, 3 x PZ2, 2 x PZ3. Magnetic bit holder: 1/4" hex. #VTBT6, New, $4.99

Torque Drivers

Mountz (M) and Torquemaster (T) torque drivers. These are unused / slightly used. Most have had ID numbers engraved on the handle.

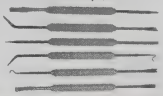
(M) - red 3-190 ozf in 2-135 cN.m 1/4 inch hex female drive, #TLS0135-R, Unused, $39.50

(T) - Standard green, as above, 1/4 sq drive, #TLS0135-G, Unused, $39.50

(T) - Minor red 3 oz f in - 12 lb f in/200 gm f cm-14kg f cm / 2-135 cNm 1/4 hex femal drive, #TORQ-3, Used, $19.95

Soldering Tools

"Helping Hands" Soldering Aid with magnifier. Table top, weighted base. Multi-dimensional adjustment capability. Alligator style clips for holding subject work. #VTHH, $5.84



6 Pc. Soldering Aid Set. 6 Double-ended picks and brushes. #VTSA, $6.95

POWERFUL DESOLDERING PUMP. Teflon-nozzle. 10.8" long. #VTD1, $2.99

EXTRA-POWERFUL DESOLDERING PUMP. Teflon-nozzle. 13.2" long. #VTD2, $3.99

DESOLDERING PUMP WITH ANTISTATIC TIP. 7.5" long. #VTD3, $5.99 Spare bit, #BITVTD3, $2.50

H.Q. DESOLDERING PUMP. Aluminum body. 6.4" long. #VTD5, $5.99 Spare bit, #BITVTD5, $1.50

ECONOMIC SOLDERING IRON STAND. With cleaning sponge. #STANDLC, $2.99

Kester Solder Supplies

Pocket Pak .031 Dia. 0.5 oz. #83-4000-0000, $1.69

Elec. Silver Solder, Box 0.35 oz. #83-7145-0415, $1.46

Kwik-Draw .050 Dia. 1.3 oz. #83-3000-0000, $2.93

One pound spool of Core Size 66, Alloy 60 / 40, Dia. in. 0.031, Gauge 21. #24-6040-0027, $13.60

One pound spool of Core Size 66, Alloy 60 / 40, Dia. in. 0.062, Gauge 16. #24-6040-0061, $12.32

SP44 Rosin Paste Flux 2 oz. #83-0000-0144, $3.18

ECG Chemicals

Jet Air Cleaner, 10 oz, #RX1100, $8.55

Electronics Contact Cleaner, Degreaser & Wash, 20 oz, #RX400, $11.59

Electronics Contact Cleaner w/ Lube, 5 oz, #RX500, $8.26

Electronics Wash, 32 oz, #RX3200, $6.99

Antistatic Circuit Refrigerant, 10 oz, #RX100, $8.55

Heavy-Duty Flux Remover, 20 oz, #RX600, $10.49

VISES

VACUUM TABLE VISE WITH STANDARD HEAD. Turns and rotates in all directions. 75mm jaws with protective detachable pads. Opening 70mm. With vacuum base: easy to mount on all flat surfaces, can also be mounted with screws. 5lbs. 7.3x6.2x6.2, #VTTV, New, $24.50

TABLE VISE WITH STANDARD HEAD. Professional quality for this metal vise for table-screw mounting. Jaw opening 3.0". Rotates 270 degree. Equipped with a fast mounting system. Height: 12.0". 6 lbs sh. #VTTV2, New, $29.00

ECG Soldering Irons

Electric Corded Soldering Irons. Each of the soldering irons listed below feature a long life tip (nickel-iron plated copper) and a cool grip rubber handle.
25 Watt - Tip temperature 464F, #J-025, $4.90
60 Watt - Tip temperature 860F, #J-060, $6.89

Electric Corded De-Soldering Irons, 45 watt, Temperature 788F, Long life tip. #J-045-DS, $9.94

Butane Soldering Iron & Torch. 30 to 70 Watt performance equivalent to a corded soldering iron. Soldering temperature 410F to 750F (20 sec.). Torch temperature 2500F (instant). Operating time up to 30 minutes. 1 mm conical tip and torch attachment included. #J-500, $19.56

Butane Heat Gun flameless. Temperature adjustable to 1400F. Operating time up to 120 minutes. Automatic piezo electronic ignition. Deflector shield, rest/stand and spare orifice included. #J-900, $46.57

Butane Soldering Iron Kit 25 to 80 Watt performance equivalent to a corded soldering iron. Operating time up to 120 minutes. 4-IN-1 use: Soldering - 410F to 850F (20 sec), Hot Knife - 410F to 850F (20 sec), Torch - 2500F (instant), Heat Blower - up to 1300F (10 sec). Includes the following: Butane soldering iron, Protective cap with igniter, 1mm conical tip, Solder, Torch-tip, Wiping sponge, Hot blower tip, Stand, Hot knife tip, and Carrying case, #J-700KT, $50.01

Butane Torch Micro-Jet. Features the following: Auto ignition, Child safety lock, Instant 2500F micro flame, Powered by a refillable butane cartridge (included). #J-300, $12.40

Versa-Torch, Hand-held Butane Torch. Convenient, light-weight sturdy with removable base. 220 min. refillable butane gas tank. Torch temperature: 1300C/2500F. Piezo electric ignition. Adjustable air flow and gas flow control valves. Safety kill/off switch. #J-220, New, $42.95

Tips & Accessories

1mm conical replacement tip for J-500 and J-700KT (iron and chrome plated copper pre-tinned). #JT-001, $7.58

2mm chisel replacement tip for J-500 and J-700KT (iron and chrome plated copper pre-tinned). #JT-002, $7.58

Heat blower and deflector tip for J-500 and J-700. #JT-003, $8.27

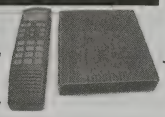
Two pack butane replacement cartridge for J-300. #JT-004, $2.48

Replacement conical tip for J-025 (nickel plated copper); 2 tips/package. #JT-101, $1.13

Replacement conical tip for J-060 (nickel plated copper); 2 tips/package. #JT-102, $2.15

MANY ITEMS NOT LISTED - TELL US YOUR NEEDS

Cell Phone Parts

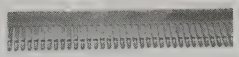


CELLULAR PHONE PARTS BLOWOUT. We have available bag type cellular phones, dead, "as is". For parts/ experimenter use. These are older large cellular phones wih many useable components for the radio experimenter or various electronic applications. These units contain filters, crystal oscillators, power amplifier, surface mount components. Microphone, speaker. Nice Extruded aluminum case: 5.7x1.2xX6.3.
#PH-CELL $10; 4/$30

Matched Meters & Rheostats

"Loaded" with prime "clean" parts for DC power projects!
Panel includes:
* 0-30 VDC METER.
* 0-30 DC AMMETER.
* 4 ea 50 MV SHUNTS.
* 4 RHEOSTATS: 2 ea 225 W 3 ohms, 2 ea 150 W 2 ohms. * 12 Circuit Breakers: 4 ea 32 VDC 8 amps 8 ea 32 VDC 20 amp. * 12 ea 1N1184 DIODES.
* 4 ea 2.4" dia KNOBS and other parts. Panel is sold "less its On-Off and 4 STA selector switch.
18.8x23x6, 30 lb. #DAV-LCP, 2 for $65.00
Manual Repro for above, #MM-DAV, $10.00

Finger Stock

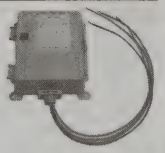


18" long x 1/2" ht strips of finger stock. Each individual finger has a width of 1/15" and a ht of 5/16".
#FS-18, Unused, $6.95 ea; 4 / $20.00

Experimenter's Paradise

Motorola Control Receiver???? Great experimenter item. We have seen them in the past in some cities at intersections and believe their purpose was to intercept traffic signals when emergency vehicles needed to pass. Transistorized receiver covers 139.65 MHz with a five section preselector, crystal controlled oscillator and Vibrasponder" tone detector which allows a SPST relay to be actuated by a tone in 600 to 800 Hz range. SPECIFY if tone-match required. Receiver is housed in a plastic protective case. Power required 24 VAC. Has internal transformer and power supply. 7.2" dia. x 6" Ht, 5 lbs sh. #15D82032, $7.95 each 4 for $25.
#SCH-15D82032, Schematic Info, $7.50

Control Receiver



Scientific Atlanta Power Control Receiver Model DCU-1051B-01-00-S Series DCU-G-1530. Originally used by power companies to allow radio control of power usage. The units have receivers in the 150 mhz range as well as a 6 VDC contactor rated for 240 VAC 30A resistive. They are programmable and will work on the General Electric code format and/or the SA-105. Power transformer 240 VAC secondary approx 6 Vac. The weather resistant plastic case with gasket and snap closure is excellent for outdoor projects. Has molded on wall mounting brackets. Internal dimensions 9.5x7.4x3, 5 lbs sh.
#DCU-1051B, Unused $15.00 each; 3/$33.00

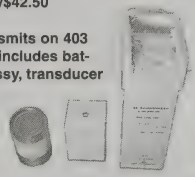
Peltier Device

PELTIER THERMO-ELECTRIC COOLING MODULE 3A 15.4V 149F. Melcor type: CP1.0-127-06L. I max.: 3A. Delta T max.: 65∞C. voltage: 15.4V. Q max.: 25.7W. Number of couples: 127. Size: 1.2" x 1.2" x 0.14". 1 lb sh. #PELTIER1, New, $13.95

PELTIER THERMO-ELECTRIC COOLING MODULE 6A 15.4V 153F. I max.: 6.0A. Delta T max.: 67∞C. Voltage: 15.4V. Q max.: 51.4W. Number of couples: 127. Size: 1.6" x 1.6" x 0.15". 1 lb sh. #PELTIER2, New, $14.95

Radiosondes

VAISALA RADIOSONDE, ultra-light disposable transmitter (400 MHz approx) is designed to be carried aloft by weather balloon and transmit data for air temperature, barometric pressure and humidity to a ground station. Consists of circuit board, dipole antenna, and trailing wire. Requires 9 V battery. Cute experimenter item! 12.5"H as shown; 3 lbs sh. #RS80, NEW, $9.95 ea; 5/$42.50



Radiosonde mfg by VIZ, transmits on 403 MHz RDF modulated signal; includes battery and seperate antenna assy, transducer polishing cloth, baroswitch pressure calibration chart, and instructions. 4.8 x 3.8 x 12.3, 4 lbs sh. #ML659, Unused, $12.95

AMT-4 Radiosonde Modulator originally was raised by a balloon into the sky to measure atmospheric conditions. Comes w/ barometric unit only. Atmospheric pressure range 1060 to 5 mb(millibars) Resistive temperature element temperature +60 to -90 d C. With schematic. #MD-147, Unused, $8.95

Newer version of above. No data, but expect the ranges to be about the same. #MD-210, Unused, $8.50
Original manua AMT-4A. #MM-AMT-4A, $15.00

Dehumidifier Control

HONEYWELL DEHUMIDIFIER CONTROL as used in home dehumidifiers. Plastic element tape senses humidity and "opens" normally-closed 120 VAC contacts; has variable control. 1.8x4.5x1, 1 lb. #H46A1103, unused, $2.95

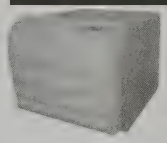
Mini Pump

12 VDC IMMERSION PUMP, probably from auto/RV market; 3/8" dia outlet moves about 1 gallon/minute. Operates on higher voltages with increased flow rate for short periods: @ 24 VDC, 1.5 gal/min; @ 35 VDC, 2 gal/ min. For non-flammable fluids only because fluid flows thru motor acting as lubricant. Use in fountains, solar water or science fair projects; 4"L x 1.5" dia, 2 lbs. #HAR-12V-IMP, NEW, $6.95

Motorized Lens

MINOLTA MOTORIZED LENS, focal length 3 mm with 6 mm zoom assembly; probably used in copy machine. Front coated lens diameter 60 mm; rear 15 mm. Focus and zoom mechanism each has small DC gear motor which operates at about 30 RPM @ 5 VDC or 60 RPM @ 10 VDC. 5.5x5.5, 3 lbs sh.
#LENS-36-98, unused, $20.00; 3 / $50.00

Sterilizer



M-49 EasyClave Sterilizer. Displays messages and uses audible "beeps" to indicate the status of a cycle. Also displays error messages and uses audible "beeps" to indicate malfunctions. Automatically initializes the on-board computer and runs a self-diagnostic test when the unit is plugged in. Preheats the chamber of the sterilizer for 90 minutes after each sterilization cycle to allow for "quick start" cycles.
20.7x15x15.6, 84 lbs sh. #M-49, Used, $1595.00

X-10 Controller

Leviton Manual Controller. Used to control light and appliance modules. Compatible with Radio Shack and Home Safe remote devices. Can control 256 "X10" device codes. Unit has 16 Unit Code Buttons. Also, has 6 Command Keys: On, Off, Bright, Dim, All Lights On, and All Off. The controller is equipped with a key-operated lock-out switch that can be set in the "ON" or "OFF" position. The controller will transmit command signals to modules in your control system only if this switch is keyed to the "ON" position. Key pad mounted in sturdy steel case. Requires 120VAC 60Hz. 8.3x6.7x4.5, 7 lbs sh.
#X10-6242, Unused, $9.95 ea, 2 / $18.00, 4 / $32.00

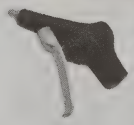
Weaver D6 Scope

Qualtiy 6 power scope fits common rifle mounts. Unfortunately scope is without cross-hair. Still a nice low-cost spotting scope! 12.3" long, 2lbs.
#SCOPE-D6-U, Used,$7; #SCOPE-D6-UN, New,$12

Grab Box

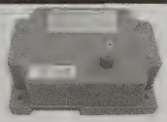
ASSORTMENT of used and unused commercial and government electronics parts such as assemblies, motors, coils, transformers, chokes, circuit boards, capacitors, resistors, and other usable items. Packed in 50 lbs cartons:
#GRAB-ASST, $12.00 ea; 2 / $21.00
Allow for shipping charges!!

Pressure Blow Gun



ARO Pressure Regulated Air Blow Gun. Has a primary pressure of 250 PSI and a secondary pressure of 29 PSI. Temperature Range is 32 to 175 degree farenheit. Designed only for compressed air. 2 lbs sh.
#ARO-8338, Unused, $6.95

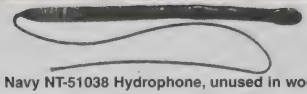
Electronic Ignitor



Fenwal Automatic Electronic Ignitor. Input12 VDC. This looks like an ignitor for an oil furnace as it puts out a HV spark. Maybe neat for experiments. BE CAREFUL. 5.25 x 4.75 x 3 overall. 3 lbs sh.
#05-159901-003, Unused, $9.95 each

PLACE YOUR ORDER OVER THE WEB AT FAIRRADIO.COM

Hydrophone

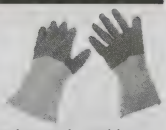


U S Navy NT-51038 Hydrophone, unused in wood box. Frequency range 1 - 20000 hz with eight Rochelle Salt Crystal doublets, each about 3 x 2 x 1 inch. Matching transformer for 25 ohm output. Rubber casing with castor oil immersed crystals approx 56 inches by 2.5 inches in diameter. The castor oil was used to couple the cyrstals to the water. Castor oil has deteriated. Nine foot cable with two steel strain wires and two signal wires. A great experimenter item with a potential for listening to fish ???, boats, ships etc. Unused old stock in wood box. 29 lbs sh. #NT-51038, $35.00

Remote Controls

EMERSON MULTI-FUNCTION REMOTE CONTROL SET, intended for use with celling fan & light, but receiver circuit board and push-button remote transmitter should adapt to experimentation and your projects. Originally one button brightened light and other two controlled speed of special AC motor (not available). Circuit board outputs to motor are fixed voltages with sequence and voltage dependent upon positions of four switch DIP code switch. Sixteen codes possible; remote actuates sequence. Receiver is not isolated from power line so extra care is necessary when working with this device. Transmitter requires 9 V battery (not supplied). Hook-up info included; #RC-5100/1, new $15.00

Neoprene Gloves

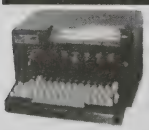


Stanzoil Knit-Lined Neoprene Gloves. Multi-purpose chemical, abrasion and temperature resistant liquid-proof hand protection with durability and flexibility. Soft interlock knit lining insulates from heat and cold, absorbs perspiration, and provides easy on/off. Neoprene coating resists a broad range of chemicals. Non-slip "roughed" grip. Mfg by MAPA Professional.
New, $4.50 pair; 4 pair for $12.00

Please specify model number when ordering. Sizes available:

Small: #S-432; Medium: #M-420
Large: #L-408; Extra Large: #XL-348

Teletypewriter

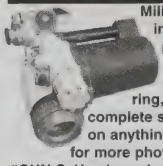


AN/UGC-129 Tactical Teletypewriter, full duplex teletypewriter has 16K RAM and QWERTY keyboard with Edit, Mode Select, and Memory. Printer speed 120 CPS: 69-80 character line, single or double line feed. 64-character ASCII subset; ITA5 or Baudot codes. 8 baud rates 45.5 to 2400. Uses paper rolls 216 mm W x 127 mm dia friction feed, single or multi-copy. Requires 115/230 VAC 47-400 Hz; connectors not available. 9.5x15 x18.5, 52 lbs. #UGC-129, Used reparable, $49.50
Manual repro f/ later model (useful), #MM-UGC-129, $35 w/ set

Military Badge

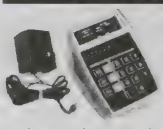
Dark navy blue background with gold color "wings and propeller". 3" diameter. Unused, #B-3, $3.00

Gun Sight



Military Optical Gun Sight. No information on this sight. No part numbers. It has a 4 inch lens that looks like it fits into a fixture. Eyepiece with focus ring, but because this is not a complete system we are unable to focus on anything. See fairradio.com/optic.htm for more photos. 10.5x10.9x7, 25 lbs sh. #GUN-S, Used good condition. $175.00

Calling Card Timer



TELE COSTER I TELEPHONE METER, Ideal for keeping track of the minutes expired on your calling card or for keeping "tabs" on the length and costs of long-distance phone calls. Initial and secondary rates/period are programmable using the numeric plus 6-function keyboard. LED display shows cost/period plug elapsed time hr-min-sec. Also display flashes 15 sec before rate change and has X60 speed-up time so maximum acceptable charges can be determined before call. In sturdy, beige plastic case. Requires 115 VAC 60 Hz; 2 lbs sh. #TELECOSTER1, Unused, w/ info, $8.00; 3 for $15.00

Barcode Reader

TransTerm 5" barcode reader by Computerwise. Model #TT5a-28, still shown on their webpage. Unit has two line display and RS-232 output. No software, but there may be some compatible shareware. The units pass self test. Unit has membrane keyboard and unit is well sealed. Includes keyboard, high quality metal wand, transformer, and info. 1.8x7x6.1, 4 lbs sh. #TT5a-28, Used, $24.50

Copperclad Board

Copperclad Board for making printed circuit cards. Phenolic backed; 0.07" thick, 1 lb #PH-4x18, 4"x18", $.75; 4/$2.50; 10/$5.00

Ring Magnet

3.5" dia x 5/16" thick MAGNET with 1.9" dia open inner circle lifts about 8 lbs. 5" dia metal casing has mount flange to protect and isolate magnet; two wires attach to spring-loaded contacts. Use as magnetic antenna mount or in robotic, audio or science projects;2 lb #MAG-S91, $3; 5/$10

PSS-11 Metal Detector

(Polan P153) transistorized unit uses 2500 Hz signal in mutual inductance bridge circuit to detect metal objects that cause an imbalance in the 9"x11" search head's magnetic field; disturbance is heard in operator's headset. Handle adjusts 29"-57" L. Also control pack with canvas bag & 7.3x24.5x16.5 transit case. Requires 7.3 to 10.8 VDC battery (BA-1389 5.1"Lx 0.6" dia) 35 lbs. #PSS-11, Used-not tested,$75.00;
Manual repro, #MM-PSS-11,$10.00

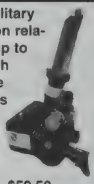
60 Second Timer

RHODES 60 SEC TIMER, times from 2 to 60 seconds; bell signals time elapsed. 3" dia plastic case; 1 lb. sh. #56414, NEW, $2.50 each.

Ritchie Compass

Ritchie Compass RU-90 has 5 degree increments. High-visibility blue 3" dial with extra large numerals. Flush mount sailboat racing style. Has 45∞ lubber lines and internal gimbals. Black in color. 4 lbs sh. #RU-90, Unused, $125.00

Aircraft Sextant



Sextant w/ periscope used in larger military aircraft to determine nightflight position relative to the stars. Has eyepiece with cup to view through right angle periscope with bubble level. Controls increase bubble size and adjust lens diffuser plus filters red, green & polarized. Also mechanical timer, 3-digit 100-turn counter dial, & transit case. Requires 28 V AC-DC for lights; 8"Wx13"Hx5.3"D, 23 lb #MS28011-1F, used w/ fiberglass case, $59.50
#MS28011-NB, used, no case, no bubble, $29.50

Aircraft Gyros

LEAR 3-AXIS RATE SENSOR with three #2157HB rate gyros; 3.4x6.4x6, 9 lbs sh. Lear mfg. #2162C, $175.00

CN-708A / GG53A1 Vertical Gyroscope. Gyro Motor: 115V 400Hz single or three phase. Erection Motor: 26, 30, or 115V 400Hz. Synchro Pickoffs: 26V 400Hz input. 11.8V 400Hz line to line output. Caging Circuit: 28VDC. Outer Axis Rotation: unlimited. Inner Axis Rotation: +/-85 degrees. Erection Rate: 2 - 5 deg/min. Accuracy: 0.15 degree of true vertical. Synchro Accuracy: +/-6 min. Pictured with removed top cover. 9.6x6x5.3, 10 lbs sh. #CN-708A, Used, $49.50

Auto Brake Light

AUTOMOBILE BRAKE LIGHT, 5.5" W x 2.8" H red lens on black plastic stand; top swivel adjusts light angle. German mfg; o/a 7.5"H 2 lbs. #BL-G10005, NEW, $2.95; 4/$10.00

Choke Cable

Six foot choke cable with knob with 2 inch pull. 2 lbs shipping. #CHEX-CBL, $5.00

Auto Test Sets

HEYER AUTOMOTIVE TEST SETS from the 1950's with 4.5" chrome-rimmed meters! Nice addition to a car collector's display or for experiment! Not Tested!

MODEL 337 TACH / VOLTMETER, ranges 0-1000 & 0-5000 RPM and +/- 0-18 VDC, Amplifier button plus socket for timing light. With tubes 0A2 & 2D21; 6 or 12 VDC use. 13x5x5, 9 lbs. #AUTO-337, Unused, $24.95

MODEL 336, same as 337 except also has Spark Advance Meter with 0-30 Distributer degree and 0-60 Crankshaft degree scales. With tubes 2/ 0A2, 2D21, 6AL5, 6AU6,. 5696; 12 lbs. #AUTO-336, Used, $27.95

TV / FM Attenuator

75 ohm TV/FM Attenuator by Blonder Tongue Labs stock #4890. 0-890MHz with two F connectors and adjustment for attenuation. #4890, Used, $8.00

EMAIL US YOUR INQUIRIES AT FAIRADIO@WCOIL.COM

DC Voltmeters

FS=2 VDC, 0-20/80 MA scale; 2.5" rd sealed. #VDC-2, Used, $5.95

FS=5 VDC, scale 0-1.5 A & 0-300 MA; 2.5" rd. #VDC-5, Used, $5.00

FS=5VDC, 0-5/0-10maDC, 3.5" rd, #S00-5V, Used, $12.00

ES=5VDC, 5-0-5/10-0-10maDC, 3.5" rd, #S00-5-0-5V, Used, $13.00

DATA TECH 0-20 VDC DIGITAL PANEL METER, uses Sperry 7-segment 0.5"H readouts. 10 meg ohm imped.; auto-polarity, OVP. Requires 115 V 60 Hz. Units have "weak" displays and/ or "bad" segments. 1.9"Hx4"Wx5.5"D, 3 lbs. sh. #5313-220, "AS-IS", $10.00

POLARAD Mfg. FS=100 V DC, 0-100-500 scale, 4"W x3.8"H. #M2/TV13, $8.95

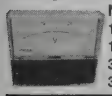
FS=150 VDC, 0-1500-5000 sc. 4"Wx3.8"H. #M4/TV-13, $8.95

150-300 VDC expanded scale, 4 1/2" rd, black face, Weston 760, 500 ohm/Volt, #VDC-300, Unused, $10.00

0-20 KV, FS = 1 MA; 2.5" rd black, #VDC-20KV, Used, $7.00

High Voltage DC 3 1/2" round panel meters removed from equipment. Each panel meter listed below comes with the associated large multiplier resistor creating full scale indication as shown below.

0-1KV, #S00-1KV, $17.95
0.9-3.4KV, #S00-3.4KV, $18.95

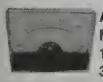


Analog DC Voltage Panel Meters, New, $8.95 ea.
15V, 2.4"x1.9", #AVM6015
15V, 2.8"x2.4", #AVM7015
30V, 2.4"x1.9", #AVM6030
30V, 2.8"x2.4", #AVM7030

AC Voltmeters

0-2 VAC, 2 1/4" rd white face, Non-linear, #VAC-2, used, $4.95

VTVM Meter 1-10 VAC scale expanded with 3.5 V centered; also 0-20 DB. 4.5" rd. #0899, Unused, $6.95



Analog AC Voltage Panel Meters, New, $8.95 ea.
150V, 2.4"x1.9", #AVM60150
300V, 2.4"x1.9", #AVM60300

Shunts

FS=50mv:
30 amps, 1.3x2x1.7, #SH-30, Used, $6
200 amps, 1.4x6x0.8, #SH-200, Un, $4

High Current Weston DC Generator Shunts. 50mv.
Used, minor corrosion.
400 amp 4 lbs. #SH-400, $25.00
500 amp 3 lbs. #SH-500, $25.00
800 amp 4 lbs, #SH-800, $25.00
1000 amp 9 lbs, #SH-1000, $35.00
2000 amp 13 lbs, #SH-2000, $40.00

DC Micro Amps

FS=50 UA DC, scale -30 -+150 w/ "O" center; 2.5" rd sealed. #TRC30150, $4

FS=100 UA DC, sealed 3.5" rd, Red-Green-Red, #UA-100, Used, $6.00

ES=100 UA, 0-center Null scale; 2.5" rd. sealed. #UA-100-ES-2.5, Used, $6.95

ES=100 UADC, 3.5" rd, Scale -10 to +10 %, Black face, #UA-100-ES-3.5, Used, $6.00

0-200 UADC 2.5" round. White face. Used, #UA-200, $9.50

ES=375uaDC by Triplett, 15-0-15 scale, 4"H x 4.5"W, #52-4162, Unused, $12.00

500-0-500 UA DC; 3.5"W X 3"H HOYT mfg. Scale: -50/-100-0-+50;/+100 maDC, -25-0-+25 VDC. #UA-500-ES, Unused, $9.95

DC Milliamps

FS=1maDC, Marked Amperes, Volts, and AC. 0-5/120/30 scale. 3.6"W x 3.3"H, Mounts in 2 1/4" hole. #2168, Unused, $15.00

ES=1maDC, 100-0-100 scale, 2.5" RD, A&M Instruments. #265-097, Unused, $12.00

FS=5 MA DC, 0-150 VDC scale 3.5" sq. #MA-5, Used, $6.95

FS=25 MA DC, 0-25/100/200 scale; 2.5" rd. #MA-25, Used, $5.95

10-0-10maDC by Simpson, 4"H x 4.5"W, Mounts in 2 3/4" hole. #5272, Unused, $12.00

100-0-100 MA DC, 3 1/2" rd Weston 301, #MA-100-ES, Used, $5.95

150-0-150 MA DC, 3.5" round Simpson. #MA-150-ES, Unused, $7.95

Analog DC Current Panel Meters, New, $8.95 ea.
50mA, 2.4"x1.9", #AIM6050
100mA, 2.4"x1.9",#AIM60100
500mA, 2.4"x1.9", #AIM60500

DC Amps

EDGEWISE METER 0-8 A DC; 1.9"W x 3/4"H; #D2588, $7.00

FULL SCALE = indicated:
ES=45 ADC, 2.2" rd, Automotive, Black face, #ADC-45-ES, $8.00

FULL SCALE = 50 MV:

0-15 ADC 3.5" rd black, #ADC-15, $7.00

0-30 ADC 2.5" rd, used, #ADC-30, $6.95

0-500 ADC 4.0"Hx 4.5"; Mfg by Weston. #ADC-500, Used, $10.00

Analog DC Current Panel Meters, New, $8.95 ea.

3A, 2.4" x 1.9", #AIM603000
10A, 2.4" x 1.9", #AIM6010A
5A, 2.4" x 1.9", #AIM605000
5A, 2.8" x 2.4", #AIM705000
30A, 2.4" x 1.9", #AIM6030A

AC Amps

FS = 5 amps AC; transformer required for indicated scale (not available):
0-125 A, 3.5" dia. #ACA-125, $9.00
0-150 A, 2.5" dia. #ACA-150, $8.00

0-100-200 AC AMPS FS=5 A GE-YOKO 2.5" sq. #ACA-200, $8.95

Various Meters

- - - - - - DB METER - - - - - -

-4-0-+6 DB 1 MW, FS= 1 MA; 2.5" rd sealed, #DBM-4-6, Used, $4.00

-6-0-+3 DB, FS=200 ua 2.5" rd sealed; #DBM-6-3, Used, $4.95

- - METER ASSORTMENT - -

Seven U.S. mfg meters 2 1/2" x 3 1/2" - up; mixed odd scales, FS-100 ua and up-- no choice; 3 lbs sh. #MTR-ASST, $10.00

- I-70 B TUNING METERS -

"Tune for Max" meter used in many WW-2 radio remote control boxes such as BC-311, BC-434 & C-4/ARN-7; 2.1x2.1 x1.6, 1 lbs. #I-70B-TM, Used, $10.00

- ART-13 PLATE METERS -

Original PA Plate Panel Meter from the ART-13 transmitter. Full Scale equals 1maDC. 2 1/2" round. Black face. Used condition, #PMTR-ART-13, $20

- - REED FREQ METER - -

60 / 400 HZ REED FREQUENCY METER two reeds--one 60 Hz, one 400 Hz-- vibrate when freq approached. Use a 20K ohm resistor for 115V operation. 2" dia; fit 1.5" hole. #FM-TS382, used, $9.95

Galvanometers

Used in test bridges to indicate slight variations in current; 1 mm increments:

LEEDS & NORTHROP 10-0-10 scale, sens 0.1 ua/mm. CDRX 10K ohms; 500 system res. Period 4 sec; w/ Balance "lock". Behind panel: 4"D x 1" dia; front 3"H. #18876, New, $25.00

GALVANOMETER 15-0-15 scale, sens 1 ua/mm. Meter coupled to mirror for photo-optic read. No Balance "lock". Behind panel 3"D x 2" dia; front 2.5" di, 2lbs shipping. #GALV-726667, $18.00

KW Hour Meters

KiloWattHour meters 240 volt 60 Hz single phase 4 dial. Monitor power to your out buildings or campground. Removed from use, good condition. An interesting item to build into a lamp base. You could probably modify it to make in run on the lamp current. 8 lbs sh. Used.

Westinghouse Rr 138 8/9 240 v 60 hz 3 wire 30 amps 7.2 kh. #2P2G6, $30.

Duncan Form 2S, Rr 138 8/9, 240 v TA 30, Kh 7.2 3W. #200CL-MS, $29.00

Duncan MQ-S Form 2S Rr 83 1/3 240 v 60 hz 3W TA 30 12 kh. #200CL-MQ-S, $28.00

Current Xformer

Current Transformer, 130/5 ratio, 2.5VA, 50-400Hz, 15/16" diameter hole opening. O/A 2x2.5 x3.1, #TR-2.5, Unused, $6

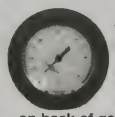
RF Thermocouple

RF Thermocouple ARC-7499 as used in RE-2/BC442 ARC-5 antenna relay. Bridge type 19.5 +/- 1.5 mv 750 ma. Use for replacement on experiments. #ARC-7499, Unused, $5.00

Pressure Gauges

0 to 15 PSI Pressure Gauge by USG. 2.1" round with 1/8" fitting and brass coupling. #PS-15, Used, $7.95

0-60 PSIG & 0-4 KG/CM; 2.1" rd w/ 1/2" dia fitting. #PG-60PSI, NEW, $5.50



DURAGAUGE 7.5" 0 TO 300 PSI PRESSURE GAUGE. 1 PSI graduations. Quality metal construction. Face is 5.5" dia. with 3/8" fitting on back of gauge. Mounts on reat flange. 5 lb sh. Ashcroft "r", #PG-300, unused $29.95

PRESSURE REGULATOR 0 - 500 PSI. Seems to be a quality unit, but no mfg. or country of origin on the unit. 2.5x1.8 x3.3, 2 lb sh. #PR-500, $5.00

0-6000 PSI 4" dia 270 degree scale;7/16"di fitting. O/a 6"dia. #M6000-PSI, Unused, $14.00

Water Gauge

3 1/2" Round Gauge reads negative 80 thru positive 80 "Centimeters of Water" in increments of 2. Has 1/8" threaded hole on back. Made by Marshall Town. #92361, Unused, $7.50

Running Time Ind.

3 1/2" Round Running Time Meter by Cramer Division Type 635EAA. Requires 115VAC 60Hz at 2.7 watts. Reads upto 999,999 hours. Reads in one hour increments only. Does not read in tenths. 3/10 RPH. 3" depth. Comes with mounting hardware. #RTM-115, Unused, $19.95

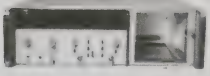
Same as above except 440VAC 60Hz and reads upto 99,999 hours, #RTM-440, Unused, $14.95

12VDC Counter

6-Digit Mechanical Counter 12 VDC nonresettable; black numerals on white. Rear mount flange; o/a 1.3"Hx1.5"Wx2.5"D, 1 lb. #E07B10DC12, New $2.95 each; /$10

GET A BETTER PICTURE OF OUR ITEMS AT FAIRRADIO.COM

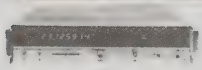
500 MHz H-P Counter



HP-5345A ELECTRONIC COUNTER, solid-state 9-digit plug-in type measures DC to 500 MHz channels A & B without any plug-in. Function Select: Plug-In, Freq A, Period A, Time Int A to B, Ratio B/A, Start Stop. Channel controls 50 or 1 M ohm input, x1/x10 Atten, AC-DC, and Level. Requires 100/120/220/240 VAC 48-66 Hz; 5.3x 16.8x19.5, 42 lb sh. #HP-5345A, Used-reparable, $250.00

HP-5328A ELECTRONIC COUNTER, solid-state modular design; counts upto 512 MHz on 9-digit LED display. 10 MHz reference oscillator, input for external freq-standard. Universal 100 MHz Module controls Channels A & B functions LEVEL, AC-DC select, ATTEN 1-10-100, and Marker output. Sensitivity 25 MV to 40 MHz; 50 MV 40-100 MHz. Channel C module provides 5-512 MHz range, 15 MV rms sensitivity. Trigger fixed; 50 ohm impedance. With Option 011 HP-1B computer interface & manual repro. Requires 100/ 120/220/240 V 48-66 Hz; 3.5x 18.5x19, 28 lbs.
#HP-5328A-UR, Used-Reparable, $195.00
#HP-5328A-CH, Checked, except for HP-1 computer interface, $450.00

18 GHz Counter



HEWLETT-PACKARD 5340A FREQUENCY COUNTER, covers 10 Hz to 18 GHz with automatic amplitude discrimination feature allowing counter to select largest signal in 250 MHz-18 GHz spectrum. Has 8-digit display. Sensitivity -30 dBm, 10 Hz-500 MHz; -35 dBm 500 MHz-10 GHz; -25 dBm 10-18 GHz. Input impedance 50 ohms; 10 MHz crystal time base. Has Self-Check and N and BNC input connections. Requires 115/230 VAC 48-66 Hz; 3.5x 16.8x18.8, 31 lbs sh.
#HP-5340A, Used-Checked, $1095.00

HP-5245L Counter

HP-5245L COUNTER, 7-digit predecessor of 5345A; measures upto 50 MHz without plug-ins. 100 mv sensitivity; gate 1 usec to 10 sec in decade steps. Units at least "test" count. 5.3x16.8 x18.3, 34 lbs sh.
#HP-5245L, Used-Reparable without plug-in, $69.50

Manual repro, #MM-HP-5245L, $20 w/set purchase.
#HP-5253B Plug-in, 50-500Mhz, $50.00
#HP-5257A Transfer Osc. plug-in, 0.05-18 GHz, $150

H-P Microwave

HEWLETT-PACKARD, 5 lbs sh. Used:

G532A, 3.85-5.85GHz, $195.00
J532A, 5.3-8.2 GHz, $195.00
P532A, 12.4-18 GHz, $195.00
R532B, 26.5-40GHz, $195.00
X532B, 8.2-12.4GHz, $195.00
536A, 0.94 - 4.2GHZ, $50.00

VARIABLE MICROWAVE ATTENUATORS: 15 lbs
J382A, $195; X382A, $50

DIRECTIONAL COUPLERS: 2 lbs sh.

G752C, $99 H752D, $125
J752D, $125 P752C, $99
X752D, $99 P8477A, $150
Omega 3315E, $95.00

X910B Termination, $20.00

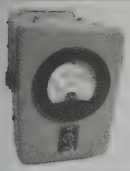
Test Equipment Blow Out!!

All test equipment listed below is used reparable

ALLISON LABS HP LO FILTER $135.00
BALLENTINE 323 TRUE RMS AC VOLTMETER $65.00
BELL&HOWELL TSC-2000 SYSTEM CALIBRATOR $395
BERTAN 205A-10 10 KV POWER SUPPLY $175.00
BERTAN 210-05R 5 KV POWER SUPPLY $285.00
BOONTON 230 SIGNAL GENERATOR POWER AMPLIFIER $175.00
BOONTON 74D CAPACITANCE BRIDGE $150.00
BOONTON 75A-58 CAPACITANCE BRIDGE $150.00
C340A2 C340A1 C344A C301 6625-00 3185425 $400
COMMUNICATIONS TECHNOLOGY C-9955 SPLICERS TEST SET $100.00
CUSHMAN CE-21 FREQ SELECTIVE LEVER MTR $175
DAVEN RES DECADE 1111.0 $75.00
EATON NM-65 EMI FIELD INTENSITY MTR 1-14Ghz$1400
EDC 501 PROGRAMMABLE VOLTAGE STANDARD $75
ELECTRO METRICS INTERFENENCE EMC25MK III 10KHZ-1GHZ $250.00
ELECTRO METRICSCRM-25 METERING MODULE $125
ELECTRO METRICSSPD-125 SPECTRUM DISPLAY W/PP125 AND DUMONT 74-14 TIME BASE $150.00
FLUKE 332B DC VOLTAGE STANDARD $450.00
FLUKE 332D/AB VOLTAGE STANDARD $495.00
FLUKE 343A DC VOLTAGE CALIBRATOR $325.00
FLUKE 405AB HIGH VOLTAGE POWER SUPPLY $295.
FLUKE 752A REFERENCE DIVIDER $225.00
FLUKE 7600A SCANNER $50.00
FLUKE 760A METER CALIBRATOR $395.00
FREED TRANSFORMER 1620R MEGOHMMETER $165.
GR 106G 1 MHY STANDARD INDUCTANCE $75.00
GR 107K Variable inductor .299 MHY $95.00
GR 107M Variable inductor 29.6 MHY $95.00
GR 107N Variable inductor 286 MHY $95.00
GR 1263C AMPLITUDE REGULATED POWER SUPPLY$75
GR 1396B TONE BURST GENERATOR $125.00
GR 1651A BOLOMETER BRIDGE $75.00
GR 219M DECADE CAP .0 .01 .001 UF $75.00
GR 602F DECADE RESISTANCE 111.0 OHMS $60.00
GR 670F 111.0 OHMS COMPENSATED DECADE RESISTOR $70.00
GR 716C CAPACITANCE BRIDGE $150.00
HAYDON TDR TESTER S233 $69.50
HONEYWELL RUBICON 2730 POTENTIOMETER $85.
HP-1200B 100 UV DUAL TRACE $195.00
HP-1206B OSCILLOSCOPE $150.00
HP-211B SQUARE WAVE GEN $75.00
HP-214A PULSE GEN $150.00
HP-2590B MICROWAVE CONVERTER $125.00
HP3211A SWEEP OSC W/3221A 3216 30-70 MHZ $195.
HP-3310A FUCTION GEN $125.00
HP-3310A FUNCTION GEN $100.00
HP-3312A FUNCTION GEN $175.00
HP-3403C TRUE RMS VOLTMETER $125.00
HP-3437A SYSTEM VOLTMETER $100.00
HP-3465A DIGITAL MULTIMETER $125.00
HP-3495A SCANNER 150.00
HP-3575A GAIN PHASE METER $375.00
HP-3710A IF 1BB TRANSMITTER $175.00
HP-4204A 10HZ-10MHZ Digital OSCILLATOR $250.00
HP-431C POWER METER $75.00
HP-4437A ATTENUATOR $99.00
HP-4815 VECTOR IMPEDANCE MTR NO PROBE $295.
HP-5036 Microprocessor Lab in case $175.00
HP-5180A WAVEFORM RECORDER $450.00
HP-525C CONVERTER $25.00
HP-5315B 100 Mhz Universal Counter $175.00
HP-54600A OSCILLOSCOPE $600.00
HP-6130B DIGITAL VOLTAGE SOURCE =/- 50V 1 AMP $250.00
HP-746A HV AMPLIFER $225.00
HP-8002 PULSE GEN $95.00
HP-8012 PULSE GENERATOR $125.00
HP-8402B CALIBRATOR $75.00
HP-8614A SIGNAL GEN .8-2.4GHZ $300.00
HP-8616A SIGNAL GEN 1.8-4.5GHZ $325.00
HP-8620C SWEEP OSC $225.00
HP8690 W/8658B 0.4-110MHZ SWEEP $295.00
HP-8708A Synchronizer $125.00
HP-8743B P/O REFLECTION TRANSMISSION TEST UNIT 2.0-12.4 GHZ $295.00
HP-8900B PEAK POWER CALIBRATOR $95.00
HP-940A FREQUENCY DOUBLER $150.00
KRON HITE 4141R Oscillator $225.00
L&N 4385 SHUNT BOX $75.00
L&N 7592 VOLT BOX $95.00
L&N 1087722 .10000 OHM VOLTAGE DIVIDER $125.
L&N 2665 AYRTON SHUNT $95.00
L&N 4232 GUARDED WHEATSTONE BRIDGE $100.
L&N 8691-2 MILLIVOLT POTENTIOMETER $150.00
L&N 8692 TEMPERATURE POTENTIOMETER $150.
L&N 8693 TEMPERATURE POTENTIOMETER $150.
MARCONI Modulation Meter TF2300B $225.00
MARCONI TWELVE CHANNEL FM7816 NOISE GENERATOR $145.00
MCMARTIN TBM-1100R VHF RECEIVER $145.00
MONROE ELECTRONICS ISOPROBE ELECTROSTATIC VOLTMETER 144S-4 $350.00
MOTOROLA T1034B FM SIGNAL GENERATOR $145
NH RESEARCH SF2276 2 PHASE SINE WAVE WHEEL SUPPLY $200.00
NORTH ATLANTIC 214C Phase Angle $395.00
NORTH ATLANTIC 225 Phase Angle $275.00
NORTH ATLANTIC 321A Phase Angle Voltmeter $200
NORTH ATLANTIC VM204 Phase Angle Voltmeter $175
POLARAD 1107A 3.7-8.4 Ghz SIGNAL GENERATOR $300
POLARAD 1108 7-11 Ghz SIGNAL GENERATOR $325
POLARAD CA-S 2.14-4.34 KMZ HORN $160.00
POLARAD VECTOR ANALYZER ZPV $750.00
PRECISION CALIBRATION KIT WR137 5.85-8.20GHZ C7005 w/ C313 C103C-5 2/C209C1 C340A2 C340A1 C344A C301 6625-00 3185425 $400.00
RFL 829G AC/DC CALBRATION STANDARD $795.00
ROCKLAND 852 DUAL HI/LO FILTER $495.00
SIMPSON GENESCOPE SIGNAL GENERATOR W/ OSCILLOSCOPE $145.00
SINGER STODDART NM-17/27 EMI FIELD INTENSITY METER $995.00
SUNAIR GSB-900RU RECEIVER NO CONTROL $495
TEK 190B CONSTANT ANYLITUDE SIGNAL GENERATOR $125.00
TEK 434 STORAGE OSCILLOSCOPE $225.00
TEK 575 TRANSISTOR CURVE TRACER $295.00
TEK TSG3 PLUG-IN'S FOR TEK 1410 $150.00
TEXSCAN RS-50 SWEEP GEN 0-500 MHZ $175.00
TEXSCAN VS-50 SWEEP GEN 0-500 MHZ $175.00
TINSLEY INST CANADA RESISTOR SHUNT 0.01 OHM 100 AMP $40.00
TRACOR 599 Tracking Receiver 599-303 AGC Phase 599-204 Receiver 599-502 Power Supply $495.00
TS-1775 RELAY TEST SET $45.00
TS-419 SIGNAL GENERATOR 850-2100 MHZ $165.
TS-488 X BAND ECHO BOX $250.00
WAVETEK 1018B LOG/LIN RF PEAK POWER METER $695.00
WAVETEK 1062 1-500 MHZ SWEEP GEN $350.00
WAVETEK 154 PROGRAMMABLE WAVEFORM GENERATOR $175.00
WAVETEK 157 PROGRAMMABLE WAVEFORM SYNTHESIZER $225.00
WAVETEK 159 FUNCTION GENERATOR $375.00
WAVETEK 180 SWEEP FUNCTION GEN $150.00
WAVETEK 2001 1-1400MHz Sweep Generator $375.00
WAVETEK 278 Function Generator $325.00
WAVETEK 750 Phase Meter 10HZ- 2MHZ $395.00
WEINSCHEL ENG 1810A STABILIZED RF RATIO METER $295.00
WJ FDM DEMODULATOR $395.00

MANY ITEMS NOT LISTED - TELL US YOUR NEEDS

Power Meter



MODEL DPM-3 RF POWER METER, has 50 and 150 watt ranges and convers the frequency range of 30 to 600 MHz. Type N connection for input, air cooled, 50 ohm impedance. Power reading shown on 3.5" diameter FS=200 ua metr; 7.5 x 5.5x16.5, 9 lbs sh. #DPM-3, Used checked, $99.50

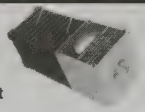
URM-120 Wattmeter

URM-120 Wattmeter measures incident & reflected RF from 10 to 1000 watts over 2 to 1000 MHz. Uses three plug-in coupler elements CU-753 (2-30 MHz, 50-100-500-1000 W), CU-754 (25-250 MHz, 10-50-100-500 W) and CU-755 (200-1000 MHz, 10-50-100-500 W) that fit TS-1285* meter. Max-insertion VSWR 1.08 (1.05 for CU-754/755, 500 W range). Power selectable on each coupler. TS-1285* has 3.5" dia meter, 0-10-50 W scale and N conn. W/transit case & manual. 5x4.8x7.3, 20 lbs #URM-120, (TS-1285 etc), used-reparable, $175.00

ME-82/U Wattmeter

Wattmeter for 50-600 MHz range 120 watts at 52 ohm input. Has non-linear scales 0-120 W 2.5" dia meter & C connection. 5.8x6.8 x13.5, 17 lb. #ME-82, Used, $65.00

Dummy Load

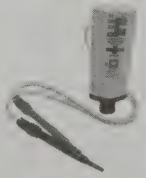


DA-189/GRC Dummy Load, portable 50 ohm unit operates over 600 to 1850 MHz range @ 40 watts max. Output indicated on 3.5" dia meter; "C" input connection. 4x4x10, 9 lb. #DA-189, Used, $40.00

Line Tester

VOLTS, FREQUENCY, POLARITY INDICATOR, handy safety item allows "quick" test of an unknown electrical line to determine its general characteristics. "Glow" lamps show Volts 28, 115, 250 DC/220 AC, 500 DC/440 AC; Frequency 60 or 400 Hz; Polarity red-black Negative when red & black probes are inserted into line. 2.8x5.4x2.5, 2 lbs. shipping. #AUL1604, Unused, $15.95

Voltage Tester



Voltage Tester by Ideal. Tester checks for 110 to 550VAC; 110 to 600VDC; 25 to 60Hz frequency; Indentifies AC or DC; Checks circuit continuity; Determines DC polarity; Finds blown fuses, grounding and leakage. Comes with the test leads featuring safety shield prod tips. 1.5x2.4x6.4, 3 lbs sh. #61-067, Unused, $20.00

Value Priced Multimeter

MINI 3 1/2 DIGIT DMM - 19 RANGES. Automatic polarity indication. Diode and transistor (hFE) test. DC voltage: 200m/2000m/20/200/500V. AC voltage: 200/500V. DC current: 200µ/2000µ/20m/200m/10A. Resistance : 200/2000/20k/200k/2000k. Basic accuracy : ±0.8% (±1.0% for 2000k range). Low-battery indication. With manual, test leads, and GP23GA 12V battery. #DVM810, New, $5.99

20 Range Multimeter

3 1/2 DIGIT DMM - 20 RANGES - 10A - TRANSISTOR TEST. Automatic polarity function low-battery indication. Transistor and diode test. DC voltage: 200m/2/20/200/1000V. AC voltage: 200/750V. DC current: 200µ/2m/20m/200m/10A. Resistance: 200/2000/20k/200k/2000k. Basic accuracy : ± 0.8%. Overload protection: 250V. Low-battery indication. 2.8" x 5.0" x 1.0" 3 lbs sh. Includes manual, test leads, and a 9V battery. #DVM830, New, $9.99

23 Range Multimeter

3 1/2 DMM - 23 Ranges / 20A. Has transistor, diode and audible continuity test. DC voltage: 200m/2/20/200 /1000V. AC voltage: 2/20/200/750V. DC current: 200µ/2m/20m/200m/20A. AC current: 2m/20m/200m/20A. Low-battery indication. 3.3"x6.5"x1.3" 3 lbs sh. With manual, test leads, holster, and 9V battery. #DVM92, New, $29.95

Temp / Capacitance / Freq

3 1/2 DMM - 30 RANGES / 20A / TEMPERATURE / CAPACITANCE / FREQUENCY. Low-battery indication, Overload protection and automatic deactivation. Transistor, diode and audible continuity test. DC voltage: 200m/2/20/200/1000V. AC voltage: 2/20/200/700V. DC current: 2m/20m/200m/20A. AC current: 20m/200m/20A. Resistance: 200/2k/20k/200k/2M/20M/200M. Capacitance: 2000p/20n/200n/2µ/20µF. Frequency: 20kHz. Temperature: -50∞C to 1000∞C. 3.5" x 6.7" x 1.5". 3 lbs sh. With manual, test leads, holster, 9V battery, temp. probe. #DVM890, New, $49.00

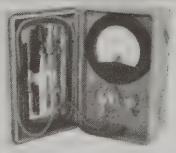
Digital Clamp Multimeter

DIGITAL CLAMP MULTIMETER WITH DATA-HOLD AND BACK-LIGHT. 3 Ω LCD display with automatic polarity indication. Data-hold and backlight function. DC voltage: 600V. AC voltage: 600V. AC current: 2/20/200A (via transformer jaws). Resistance: 2k. Continuity buzzer. 7.6" x 2.8" x 1.4". 3 lbs sh. Includes manual, test leads, 1 x 12V GP23A battery, carrying bag. #DCM265, New, $59.00

Mini Multimeter

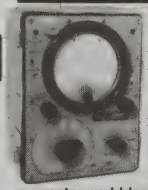
Miniature Multimeter by Soltec. DC Voltage Ranges: 0-0.25, 2.5, 10, 50, 250, 500,1000V. AC Voltage Ranges: 0-2.5, 10, 50, 250, 500, 1000V. DC Current Ranges: 0-50uA, .5, 50, 500ma. Resistance Ranges 0-20 megohms in 4 ranges. Meter comes with carrying handle, and test leads. Requires one 9 volt and two AA batteries. Batteries are supplied with unit but are NO GOOD. Meter size: 1.7x3.9x5.3, 3 lbs sh. #HM-102S, Unused, $8.95

ME-77 Multimeter



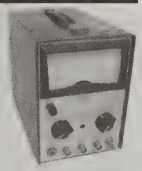
ME-77/URM-105C VOLT-OHMMETER, handy meter in ruggedized plastic case has DC & AC ranges 0-10-100-1000 V; resistance 0-2K-20K-200K-2M-20M ohms. Response 30 Hz-10KHz; has 3.5: dia FS=50 ua-meter. Requires two AA batteries for X1-X10-X100 ohms; 22.5 VDC battery (not available) for X1K-X10K ohm scales. With test leads. 6.6x4x3.3, 3 lbs sh. #ME-77, Used, $24.95

ME-297 Multimeter



ME-297/USM-223 FET MULTI-METER measures AC-DC volts to 5000 V in sequential ranges 2.5-10-50 to 5 KV, AC-DC 1000 ohm/V or DC 20K ohm/V. Also DC current to 10 amps in full scale ranges 0.25-2.5-10-50-100-500 MA DC and 2.5-10 amps. Resistance scales X1K-10K-100K-1M-10M ohms. Includes rugged plastic case, 4.5" dia FS=50 ua meter, red-black test leads and front cover. Requires 6-PXB1 1.3 V & 1-"C" batteries (not supplied). 6x7.4x8.8, 7 lb.
#ME-297-UR, Used-Reparable, $34.95;
#ME-297-CH, Checked, $54.95
Units converted so they require two double A and one C battery, #ME-297-CON, Checked, $89.50
Manual partial repro, #MM-ME-297, $8.50

Hickok Multimeter



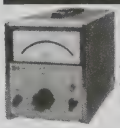
Hickok 1605M Solid State Multimeter, achieves high gain by using chopper to allow use of AC coupled amplifiers; Frequency range for AC measurements 20Hz to 700MHz. Full scale ranges 0-300VAC in seven steps and 0-1500VDC in eleven steps. 0-150maDC in eleven. 0-500 Megohms in steps Rx10 thru Rx10M. Includes AC and DC probes, two test leads, coaxial RF adapter, and manual repro. Requires 115/230VAC 50-400Hz. 10.5x5.5x8, 13 lbs. #1605M-UR, Used Reparable,$85
#1605M-CH, Checked, $125.00;
Manual Repro, #MM-1605M, $15.00

Light/Sound/Temp. DVM

3 1/2-DIGIT DMM - 20 RANGES - 10A - SOUND LEVEL / LIGHT / HUMIDITY / TEMPERATURE. Automatic polarity function. Low-battery indication. Transistor, diode test, audible continuity test. Overrange protection. Sound level measurements: 35-100dB. Light measurements: up to 20000lux. Humidity measurements: 25%~95% RH. Temperature: -20∞C to +1300∞C. DC voltage: 200m/20/600V. AC voltage: 200/600V. DC current: 200µ/200m/10A. Resistance: 200/2k/200k/1M. 4.8x2.4x1.6. Includes manual, test leads, and 9V battery. #DVM501, New, $99

FOR ORDERING INFORMATION SEE PAGES 16 & 17

HP-400GL Voltmeter



HP-400GL ANALOG AC VOLTMETER, ranges 0.1 to 1000 V-rms in 8 decade steps; -80 to +60 db in 10 db steps. Response 20 Hz-4 Mhz; output 1 Vrms open circuit. Input im-pedance 10 megohms. Requires 115/230 VAC 48-440 Hz; 6.3x5.x11, 9 lbs sh. #HP-400GL, Used Checked w/book, $135.00

HP-400E, similar to above but 1mV to 300V-rms, #HP-400E, Used Reparable, $69.50
Manual repro, #MM-HP-400E, $12.00

DC Voltmeter

ME-440/USM-381 DIFFERENTIAL DC VOLTMETER, similar to Fluke 896A; ranges 0-10-100-1000 VDC. Probe for 1100 V (upto +/-5 KV common-mode) and 15 KV multiplier input. NULL ranges 0.01-0.1-1-10-100V -TVM used with 5-digit scaler as differential meter. Solid-state; w/cover & operator info. 115/230 V 60 Hz; 11x12.5x15, 30 lbs shipping. #ME-440, Used Reparable, $45.00

HP-3586B Voltmeter

HP-3586B FREQUENCY SELECTIVE VOLTMETER, measures tone level, idle channel noise, weighted noise at voice & compare to carrier frequency over 50 Hz to 32.5 Mhz @ 75 ohm input; voice level over 50 Hz to 100 Khz @ 600 ohms. Amplitude + 20 to -130 dBm; resolution to 0.01 dBm. Option 003 measures phase jitter, noise-with-tone, signal-to-noise with tone ratio and single level impulse noise. Push-button control & entry; HP-1B programmable. NA Bell standard. Requires 100/120/220 /240 VAC 48-66 Hz; 7x16.8 x18.4, 62 lbs sh. #HP-3586B, Used-Reparable, $595.00

Freq Selective Voltmeter

SIERRA 128A FREQUENCY SELECTIVE VOLTMETER for analyzing carrier signals over 10 KHz to 15.1 MHz LSB-AM-USB; utilizes all-transistor frequency lock, Could probably be used as receiver. Separate circuits for MHz and KHz tuning each with controls COARSE, FINE, CURSOR, and input TRACKING SIGNAL BNC jack. Voltmeter has ranges 30 uV to 30 V in 13 steps; DB ranges -90 to +30 DB. Select 75-135-600 ohm termination or 1 MHz calibratior; also Selectivity WIDE-NARROW, Main Tune LOCK-CONT, Audio GAIN, and phone jack. Requires 115 V 60 Hz or 28 VDC 220 ma. May have brown or beige front panel; 12x20x15.5, 52 lbs sh. #SIE-128A, Used-reparable w/ book, $100

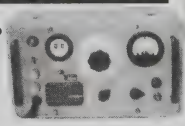
Vector Voltmeter

HEWLETT-PACKARD 8405A VECTOR VOLTMETER, measures both magnitude and phase over 1 to 1000 MHz in 21 overlapping bands. Also capable of determining insertion loss, group delay of bandpass filters, complex impedance of mixers and antennas, RF distortion and in-circuit probing. Ranges: 100 uv to 1 V-rms full scale in 10 db steps. Phase: 360 degrees on 0-center meter with end scale ranges +/- 180, 60, 18 and 6 deg. Band-width: 1 KHz. Requires 115/230 VAC50-400 Hz; 7x16.8x18.4, 36 lbs,
#HP-8405A-UR, Used Reparable w/ manual repro,$295

H-P Audio Oscillator

HP-201C Oscillator, Vacuum Tube Type covers 20 Hz to 20 KHz in 3 ranges; output 3 W (42 V) into 600 ohms; 50 V max no load. Distortion <0.5%; Attenuator 0-40 DB in 10 DB steps. Requires 120VAC 50-400Hz. 7.5x10.8x12.5, 20 lbs sh. With manual repro.
#HP-201C-UR, Used Reparable, $85.00
#HP-201C-CH, Checked, $119.50

URM-127 Audio Oscillator



AN/URM-127 SOLID-STATE AUDIO OSCILLATOR, 20 Hz to 200 KHz in four bands. Metered output 0-10 Vrms into 500 or 1000 ohms in 7 decade ranges. Design accuracy +/-2%; stability +/-0.5%. Requires 115 VAC 50-70/380-420 Hz. 7.5x13x4.5, 15 lbs sh. #URM-127-UR, Used Reparable, $55.00
#URM-127-CH, Checked, $100.00

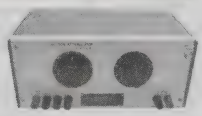
AN/URM-127A newer version, but no frequency meter.
#URM-127A-UR, Used reparable, $65.00
#URM-127A-CH, Checked, $120.00

Manual repro for URM-127, #MM-URM-127, $12.00
Manual repro for URM-127A, #MM-URM-127A, $12.00

1K ohm Dummy Load for URM-127 & TS-382 oscillators. Has two banana jacks, two terminal posts, and a BNC female connector. #DA-35, Used, $8.00

UG-514 Adapter Connector for URM-127 & TS-382. Has two banana jacks, two terminal posts, and a BNC female connector. 1 lbs. #UG-514, Used, $7.50

Shallco Attenuator



The Shallco Attenuator Network is a 600 ohm impedance, decade type, unbalanced "T" circuit direct reading unit providing accurate performance in the low radio frequency spectrum, and usable over the range from 0 to 10 MHz. Accuracy +/- (.5% + .03 dB) of setting when checked at 1KHz. Unit has a range of 0 to 110dB in 1 dB steps and is equipped with 3/4" spacing 5 way binding posts. 7.5x12x5.3, 8 lbs sh.
#12851-1, Unused, $125.00

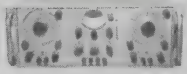
Audio Output Meter

TS-585 OUTPUT METER for audio amps, filters, oscillators. Ranges 0.1-5 mw, -10-+7 dbm; 1-50 mw, 0-+17 dbm; 10-500 mw, +10-+27 dbm; 100-5000 mw +20-+37 dbm read on 3.5" dia meter. Multiplier circuit x0.1, x1, x10, x100 allows input impedances 2.5 to 20000 ohms in 40 steps; 30-10000 Hz response. 8.5x11x5.5, 17 lbs sh. #TS-585, Used, $69.50;
Manual, partial-reproduction, #MM-TS-585, $8.50

Noise Level Meter

Northeast Electronics TTS37BR Noise Level-VU Meter, 1 & 10 db/step attenuators measures level +23 to -95DBM; Noise 13 to -5 DBRN. Input imped 900 & 600 ohm circuits balanced/ unbalanced, terminating or bridged. Sensitivity -80 DBM @ 0 DB. Has large VU-meter with scales -15 to +3 VU-DB, -5 to +13DBRN. 8.8x19x7.5, 15 lbs.
#TTS37BR, Used Reparable w/book, $99.50

Audio Test Set



MARCONI TF2005 DUAL AUDIO TEST SET, low distortion unit (designed <0.05%) consists of two 20 Hz-20 KHz oscillators, 0.1-111 dB T-attenuator and voltmeter. Output 15 dBm into 600 ohms. Attenuator balanced 75, 150, 600 ohms 1 W max; unbalanced 600 ohms. Voltmeter ranges 1.5, 5, 15, 25 V; dB ranges +10, +20, +24. Requires 115 VAC 50-60 Hz; 7x17x11, 32 lb sh. Less power cord.
#TF2005, Used Reparable with output, $195.00

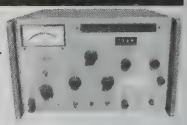
H-P Analyzer

HP-312B ANALYZER / FREQUENCY SELECTIVE VOLTMETER, 1 KHz to 18 MHz AM, AM AFC, BEAT, USB, LSB in 18 overlapping bands indicated on 7-digit readout. Synthesizer for tuning phase-locked in 1 MHz steps. Bandwidth 200, 1000 or 3100 Hz. Reference level -40 to +20 DBM in 10 DBM steps. Amplitude -60 to 0 DB in 10 DB steps. Impedance selectable 50, 60, 75, 124, 135, 150 or 600 ohms balanced or unbalanced. Audio output > 0.5 V rms into 10K ohm full scale deflection. Recorder output 1 V full scale deflection open circuit. Requires 115/230 VAC 50-400 Hz; 16.8x10.5 x18.8, 51 lbs. #HP-312B, Used Reparable, $195.00

HP-3581A Analyzer

HEWLETT-PACKARD 3581A WAVE ANALYZER, seperates and measures frequency and amplitude spectral components over 15 Hz to 50 KHz with 1 Hz resolution. Uses 5-digit LED freq- readout & analog meter for amplitude analysis. Meter scales: Volts (30 V - 100 nV linear), 90 dB or 10 dB display (+30 dB to -150 dB log). Sweep scan width adjusts 50 Hz - 50 KHz. Requires 100-120/200-240 V 48-440 Hz; rackmount: 10.5x 19.3x16.3, 30 lbs sh.
#HP-3581A, Used Checked, $395.00

HP Wave Analyzer



HEWLETT-PACKARD 310A WAVE ANALYZER, a frequency selective voltmeter-receiver covering 1 KHz to 1.5 MHz with bandwidths 200,1000, and 2000 Hz; resolution 200 Hz/div. Modes AFC-Normal-BFO-USB-LSB-AM. Amplitude ranges 10 ux to 100 V full scale, 16 steps. AFC: dynamic hold-in +/-3 KHz min @ 100 KHz; tracking 100 Hz/sec. Has headphone jack and is operable as VLF receiver. Requires 115/230 V 60 Hz; 10.8x16.8 x18.4, 50lb.
#HP-310A, Used-reparable w/ manual, $125.00

Distortion Analyzer

HEWLETT-PACKARD 331A DISTORTION ANALYZER, measurement of total distortion 0.1%-100 % in 7 ranges over 5 Hz to 600 KHz; harmonics to 3 MHz. 1 Khz filter attenuates frequencies below 400 Hz. Fundamental rejection >80 DB. Meter indicates 300 uv to 300 V rms in 13 ranges, 10 DB per range. Requires 115/230 V; 16.8x5 x15.3, 24 lbs sh.
#HP-331A, Used Checked w/ manual, $225.00
#HP-334A, Used Checked w/ manual, $300.00

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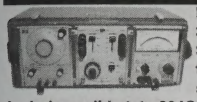
HP Carrier Test Set



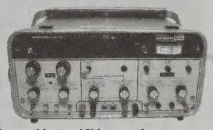
HEWLETT PACKARD 3550A CARRIER TEST SET for field testing transmission line and system characteristics. Includes solid-state 204C Oscillator, 493B Voltmeter, and 353A Patch Panel descibed below in transit case. Regulating batteries removed; 8.4x19.3x13.3, 36 lbs sh.
#HP-3550A, Used Reparable, $169.50
#MM-HP-3550A, Manual repro, $25.00

HP-204C AUDIO OSCILLATOR, AC line or rechargeable battery operation. Unit provides frequency from 5 Hz to 1.2 MHz in six overlapping ranges. Delivers an output voltage of >2.5 V-rms (10 mW or +10 DBM) into 600 ohm. Includes Sync Output: > 100mV-rms into <100pf over entire range. 5.1x6.3x8, 9 lbs sh.
#HP-204C, Used Reparable, $90.00
#MM-HP-204C, Manual repro, $12.00

HP-403B AC VOLTMETER, measures 0.001 to 300V-rms in 12 calibrated steps, -60 to +50 DB in 10 DB steps. Response 5 Hz - 2 MHZ. Requires 115/230 VAC and four 6 V 225ma batteries in regulating circuit. 5.1x6.3x8. 9 lbs sh.
#HP-403B-LB, Used Reparable, less batteries, $69.
#MM-HP-403B, Manual repro, $12.00

HP-353A Telephone Patch Panel, 50Hz-560Khz. Output impedance 135, 600, and 900 ohms. Step 600 ohm attenuator. 2 pair of matching transformers primary 600 ohm, sec 135, 600, 900 ohms. 5.1x6.3x8, 9 lbs sh. #HP-353A, Used, $30.00

Transmission Test Set



Northeast Electronics TTS-44 Transmission Test Set. A useful device for test and measurement of audio VLF-RF frequencies up to 99.99 KHz. Has a four digit display switchable from Hz to KHz, and an edgewise DB meter. Also, has a small front mounted speaker with level control. Send portion of unit generates frequencies in presets (404,1004, 2804 Hz) and variable ranges (35 - 375 Hz, 375 - 4.5 KHz, 4.5 - 60 KHz) and has an output attenuator from -40 to +10 db in six ranges. Both send and receive have two independant channels with bridged and terminated binding post and phone plug connections. 120VAC, and self contained battery operation (no warranty of battery condition) 12.7 x 15 x 7.5, 33 lbs sh. #TTS-44, Used reparable, $69.50
#MM-TTS-44, Manual Repro for above, $20.00

Communications Test Set

Schlumberger Stabilock 4031 Communications Test Set 0.4 - 1000MHz for testing of receivers and transmitters. This unit includes the following functions and more: signal generator, test receiver, frequency counter, power meter, modulation meter, audio generator, VSWR meter, AF power meter, rms voltmeter. These units are in excellent condition and pass their self test. We have run some of the functions, but this instrument has so many functions we could not fully test it. Satisfaction guaranteed. 21.5x14.7x9.4, 46 lbs sh. #SCHL-4031, Used excellent, $4000.00

Wheatstone Bridge

ZM-4 Wheatstone Bridge used to measure DC resistance. Resistance measurement range 1 ohm to 1.011 M ohms +/-0.15%; As a resistance substitution box it is adjustable in 1 ohm steps from 0-10110 ohms. The current limit of the resistors is 16-500ma depending on setting. Galvanometer indicates balance in test circuit. Requires three "D" batteries. Also 22.5 to 200 VDC for more accurate readings above 1000 ohms. Can be used as a precision resistor substitution box. 5.8x7.3x8.8, 12 lbs sh.
#ZM-4-UR, Used Reparable, $34.50;
#ZM-4-UR-L, Used Reparable less galvanometer, $17
#ZM-4-CH, Used Checked, $49.50;
Manual repro, #MM-ZM-4, $12.00

Anemometer

ANEMOMETER. Wind speed measurements in mph, km/h or m/s units. Reads up to 65MPH. Wind speed in Beauford wind scale bar graph. Wind chill display. Temperature display in degrees Celsius or Fahrenheit. Data-hold function. Auto power OFF. LCD backlight. Comes with neckband and 1 x 3V CR2032 battery. 1.5"x.7"x 3.9". #DVM9500, New, $69.95

Digital Tachometer

RPM-measurements are now safe and accurate. 5-digit LCD displays the exact rpm: 5 to 10000rpm. The last value / max. and min. values are stored automatically. Resolution : 0.05%. Comes with case. Requires 4 x 1.5V AA-batteries. #DTO2234, New, $139.00

Infared Thermometer

INFRARED THERMOMETER. One-handed operation. Laser technology. Range 0 to 788F. Resolution 1F / 1C. Spectral response 6-14µm. Response time 500ms. Accuracy -20C to +100C : ± 3C; +101C to +420C : ± 3C. Operating temperature 0 to +50C. Power consumption 40mA max. Requires a 9V-battery (not included) 1.7" x 1.6" x 6.7". 2 lbs sh.
#DVM8869, New, $179.00

URM-26B Generator

SG-117/URM-26B SIGNAL GENERATOR, 4 to 405 MHz AM-CW - Pulse in six bands. Output 0.1 to 100K uv into 50 ohms. Modulation 400 or 1K Hz 0-50%. External pulse-mod requires positive 40 V-min 50-500 pps; duration 2-40 usec and 70 ohm input impedance. Requires 115 V 50-1000 Hz. Outer case may have small dents. 11.3x14x10.5, 36 lbs sh. #URM-26B, Used Checked, $160.00

Manual repro, #MM-URM-26B, $10.00

Accessories sold only with purchase of URM-26B:
2:1 atenuator, 50 ohms, #CN-315, $8.00
10:1 50 ohm, #CN-316 $10.00
10:1 70 ohm, #CN-471 $10.00
Impedance matcher, #CU-439, $10.00
BNC cords, 4 foot, #BNC-4ft, $4.00;
BNC cords, 6 inch, #BNC-6IN, $2.00

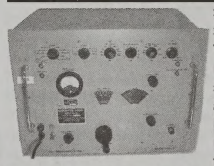
LC Bridge

3 1/2-DIGIT LC BRIDGE. Digital LC meter with 3" LCD display and figure height 21mm. automatic zero indication: high measuring accuracy. Capacitance: 2n/20n/200n/2µ/20µF/200µF. Inductance: 2m/20m/200m/2H. 7.4" x 3.6" x 1.2" 3 lbs sh. With manual, test leads, holster, 9V battery. #DVM6243, New, $96.86

Frequency Synthesizer

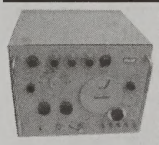
Wavetek 5107 Frequency Synthesizer Channel generates spectrally pure and stable output frequencies from 1Hz to 3MHz with constant 1Hz resolution. It utilizes a unique direct digital synthesis technique to generate the output sinusoid. Complementary TTL compatible square wave outputs are provided for monitoring the output of the channel. Unit obtains it's input power, clock control logic, and programming information externally. Requires regulated 5VDC at 2.5 amps and 15VDC at 100ma. Comes with the programming mating connector and manual. 13.6x1.35x8.8, 7 lbs sh. #WAVE-5107, Unused, $135.00

SG1174 Signal Generator



SG-1174/U (AUL 6201B) Signal Generator 3.8 - 7.6 GHz. Internal modulation of CW, pulse, square wave, FM or accepts external modulation. Control complement includes vernier tuning, attenuator, sync multiplier, pulse rate (40-400pps), pulse width (.5-10us), sync delay (3-300us), and FM modulation level. Solid-state design except for 5037 klystron. 50 ohm output, plus sync and sync delay outs; external modulation inputs. 5.7x19x13.7, 54 lbs sh, No manual available.
#SG-1174, Used Reparable, $150.00

UHF Signal Generators



HEWLETT-PACKARD 620B SIGNAL GENERATOR, 7 to 11 Ghz in single band FM, pulse or squarewave modulation. Calibrated output 0.1 uv to 0.224 V into 50 ohms. Also second 0.3 MW uncalibrated output useable for phase locking. Pulse rate 40 to 4000 pps; width 0.5 to 10 usec. Uses 5721 or = klystron. Requires 115/ 230 VAC 50-400 Hz. 13.9x17.5 x17.4; 70 lbs. #HP-620B, Used Reparable, $300.00
Manual repro for above, #MM-HP-620B, $17.00

HP-618C GENERATOR, similar to 620B except 3.8 to 7.6 Ghz; #HP-618C, Used Reparable, $200.00
Manual repro for above, #MM-HP-618C, $17.00

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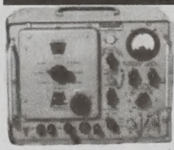
TS-403 RF GENERATOR, 1.8-4.2 Ghz; 0.1-200K uv out. Similar to HP-616B; 70 lbs shipping.
#TS-403, Used Reparable, $175.00
Manuals repro for above, #MM-TS-403, $17.00

SG-557/TS-621 RF GENERATOR 3.8-7.5 Ghz FM-CW; 110 lbs sh. #SG-557, Used Reparable, $200.00
Manuals repro for above, #MM-SG-557, $17.00

CALL US AT 419-223-2196 or 227-6573 24 HOUR FAX 419-227-1313

50 MHz Signal Generator



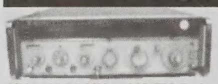
AN/URM-25 SIGNAL GENERATOR with accessories; covers 10 KHz to 50 MHz in 9 bands. Output to 100K uv into 50 ohms. Modulation 0-50% 400 or 1000 Hz; internal 1 MHz calibrator. Includes MX-1487 impedance adapter, SM-35 antenna simulator, attenuators CN-223-224, test cable & manual repro. Requires 115 VAC 60 Hz;11.3x14x10.8, 52 lbs. #URM-25-UR, Used Reparable, $110.00
#URM-25-CH, Checked, $179.50
#URM-25-GR, Gov. Reconditioned Checked, $225.

Dummy Antenna for URM-191 & other signal generators such as the URM-25. 50 ohm impedance. Has a female BNC connection on each end. #DA-650, Used, $6.00

Fixed 5:1 Attenuator for URM-191 & other signal generators such as the URM-25. Has a female BNC connection on each end. #CN-1418, Used, $7.00

Adapter Connector for URM-191 & other signal generators such as the URM-25. Has a female BNC connection on one end and a 1/4" phone jack on the other end. #35-28102-14, $6.50

HP-8640B Signal Generator



HEWLETT-PACKARD 8640B RF GENERATOR w/ options 001/002/003 for 500 KHz -1024 MHz AM-FM-Pulse in 11 bands read on 7-digit display. Output +19 to -145 dbm (2 V to 0.013 uv); phase-lock FM. Opt 003 is reverse power protection. Requires 100/120/220/240 VAC 48-440 Hz; 5.5x16.8 x18.8, 53 lbs shipping.
Used Checked w/manual copy, #HP-8640B-123,$1495
As above but with opt 001/003 only, 20 Hz-512 MHz, #HP-8640B-13, $995.00

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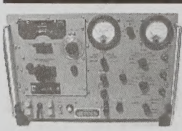
MILITARY VERSION of popular solid-state HEWLETT-PACKARD 8640B with opt 323 (AN/USM-323). Covers 500 KHz to 512 MHz AM-FM-Pulse in ten octave ranges using 6-digit LED readout; to 1024 MHz using external freq doubler (not available). Output: 0.01 uv to 2 V (-144 to +19 DBM); modulation 400, 1000, 5000 Hz. Pulse: 0.05-5 KHz. Resolution 10 Hz (0.5-4 MHz), 100 Hz (4-64 Mhz), 1 KHz (64-512 MHz). USM-323 does NOT have these features: seventh 1/2 digit, X100 Expand, ext-count input, phase-lock. Mounted in transit case. Requires 103-127/207-242 VAC 48-440 Hz; 7.8x19.5 x22.4, 70 lbs.
#USM-323, Used Checked w/book copy, $795.00

80 MHz RF Generator



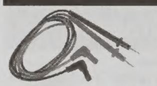
SG-297/URM-103 18 to 80 Mhz FM Signal Generator also the following IF frequencies 4.3, 5.6, 5.625, 5.650, 10.00, 11.5MHz unmodulated for testing IF frequencies of military receivers. Internal modulation 150 Hz, 400 Hz, and 1000 Hz, external modulation 0.1 to 30 Khz. RF output 0.05 to 1.0 V; IF output 10 microvolts to 10 volts. Power input 115/230 V 50 - 400 Hz. Size 13 x 13.25 x 18. 75 lbs shipping.
#SG-297-UR, Used Reparable, $150.00
#SG-297-CH, Used Checked, $225.00
#MM-SG-297, Manual repro, $12.00

480 MHz Signal Generator

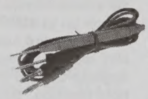
HEWLETT-PACKARD 608E SIGNAL GENERATOR, best of 608-series covers 10-480 Mhz AM-CW-pulse; 1 & 5 Mhz calibration check points over range make +/-0.05% accuracy possible. Modulation 400 or 1000 Hz internal; external 20 Hz-20 Khz, 0 to 90%. Large 3.5" dia meters for Percent Modulation & Output Volts-DBM. Requires 115/230V 50-400 Hz; 16.4x13.3x21, 72 lbs.
#HP-608E-UR, Used Reparable, $225.00
#HP-608E-CH, Checked, $275.00
Manual repro for above, #MM-HP-608E, $15.00

FIBERGLASS TRANSIT CASE for HP-608 generators; 30 lbs sh. #FIB-USM-44B, used, $30.00

Test Leads

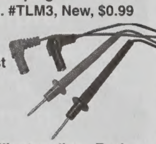


TEST LEADS. 2 test leads with protection caps. Ratings: 1000V / 15A. Length: 30" / 37". #TLM1, New, $4.99

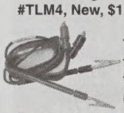


SET OF TEST LEADS - 2 BANANA PLUGS. 2 test leads (with banana plug) 0.16". Length: 39.4". #TLM2, New, $0.99

SET OF TEST LEADS - BANANA PLUG / BOOTED CROCODILE PLUG. 3 test leads (banana plug 0.16" / booted crocodile plug). Length: 35.4". #TLM3, New, $0.99



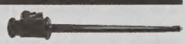
SET OF TEST LEADS - 2 HOOKED BANANA PLUGS. 2 test leads (2 hook banana plugs) 0.16". Length: 35.4". #TLM4, New, $1.19



Test Leads with alligator clips. Each test lead is 55" long. Used in conjunction with PSM-6 and other military meters. #MX-1909, Unused, $4.

Red & black panel jacks f/ above. #J-19, used, $2 per set

Wire Clips



144mm LONG WIRE CLIP FOR CABLE CONNECTION. Suitable for cable and 4mm banana plug. Length is 5.7". Black color, #CM23B, $1.64
Red color, #CM23R, $1.64

40mm WIRE CLIP. Solder connection. Length is 1.6".
Black color, #CM22B, $0.99; 3 for $1.99
Red color, #CM22R, $0.99; 3 for $1.99

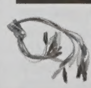
Alligator Clips

ALLIGATOR CLIP 10A. Solder conn. Length 2.2".
Boot color black, #CM16B, 4 for $0.99; 10 for $1.99
Boot color red, #CM16R, 4 for $0.99; 10 for $1.99

As above but 27mm.
Boot color black, #CM5B, 12 for $0.99; 24 for $1.69
Boot color red, #CM5R, 12 for $0.99; 24 for $1.69

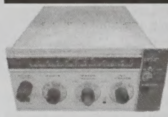
20 amp rated Industrial Alligator clip with spiney contact by Mueller. No insulation.
Unused, #AC-1868, $1.25 each; 3 for $3.00

Jumper Test Leads

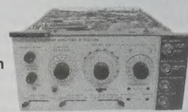


SET WITH 10 WIRES 50cm 5 COLORS WITH BOOTED 32mm CROCODILE CLIPS.
Crocodile clips: 5/4". Cable length: 20".
Booted alligator clips: 25mm.
#CM12, New, $1.79

HP Analyzer Plug-In



HEWLETT-PACKARD 8553B SPECTRUM ANALYZER PLUG -IN for HP-141T mainframe; covers 1 Khz to 110 Mhz in bands 0-11 and 0-110 Mhz. IF bandwidths: 10 Hz to 300 Khz, 1-3 sequence. Scan widths on 10-division CRT: 20 Hz/div to 10 Mhz/div in 18 calibrated steps, 1-2-5 sequence. 4x8.9x13.5, 17 lbs.
#HP-8553B-UR, Used Reparable, $250.00
Manual partial repro, #MM-HP-8553B, $17.00



HP-8552B IF Plug-in for 141T. Features video filtering, recorder outputs and an internal calibration signal to make the spectrum analyzer easier to use. Provides bandwidth/gain selection and detection. Internal calibration standard is -30dBm, 30MHz signal.
16.8x16.4x8.8, 14 lbs sh. #HP-8552B,
Used operates but may need adjustment, $350.00

HP-8556A, similar to 8553B but covers 20 Hz to 300 Khz range. #HP-8556A, Used Reparable, $175

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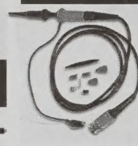
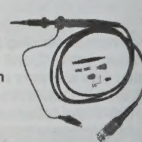
HEWLETT-PACKARD 8445B AUTOMATIC PRESELECTOR. This YIG tuned filter unit is designed for use with the HP-141T Analyzer with the HP-8555A Plug-in. Suppresses harmonic mising image and multiple responses from 1.8 to 18 GHz. Clean band sweeps of 2, 4, 6, or 8 GHz are possible depending on the band selected. N connections. Less interconnect cable. Requires 100/120/200/240 V 48-440 Hz. 3.5x16.8 x18.4, 25 lbs sh.
#HP-8445B, Used Reparable, $299.00

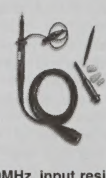
Scope Probes



OSCILLOSCOPE PROBE 150MHz. Complete probe set for measurements up to 150MHz. Attenuation: 1:1 or 1:10. Position x1 - bandwidth: DC to 60MHz, input resistance: 1Mohm (input resistance scope) input capacitance: 90pF + cap. scope. Position x10 - bandwidth: DC to 150MHz, input resistance: 10Mohm (if scope input = 1Mohm), input capacitance: 15pF approx. Cable length 3.9ft. #PROBE150, New, $44.12



OSCILLOSCOPE PROBE 100MHz. Complete probe set for measurements up to 100MHz. Attenuation: 1:1 or 1:10. Position x1 - bandwidth: DC to 60MHz, input resistance: 1Mohm (input resistance scope) input capacitance: 90pF + cap. scope.
Position x10 - bandwidth: DC to 100MHz, input resistance: 10Mohm (if scope input = 1Mohm), input capacitance: 16pF approx. Cable length 4.6ft.
#PROBE100, New, $29.95



INSULATED SCOPE PROBE 60MHz. Complete probe set. Insulated for hand-held equipment. Attenuation: 1:1 or 1:10. Position x1 - bandwidth: DC to 15MHz, input resistance: 1Mohm (input resistance scope), input capacitance: 46pF + cap. scope. Position x10 - bandwidth: DC to 60MHz, input resistance: 10Mohm (if scope input = 1Mohm), input capacitance : 18pF approx. Cable length is 4.6ft. With insulated BNC connector.
#PROBE60S, New, $19.95

PLACE YOUR ORDER OVER THE WEB AT FAIRRADIO.COM

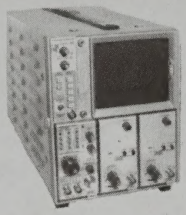
Tektronix Plug-ins

Each of the plug-ins listed below are used reparable.

Part Number: #TEK-(specify model)

067-0591-00 Calibration Fixture, $25.00
1A2 Dual Trace, $30.00
1A6 Differential Amplifier, $30.00
2B67 Time Base, $45.00
3A1 Dual Trace Amplifier, $45.00
3A6 Dual Trace Amplifier, $45.00
3A72 Dual Trace Amplifier, $40.00
3A74 Quad Trace Amplifier, $80.00
3B1 Delaying Sweep Unit, $75.00
3B3 Time Base, $40.00
3S76 Sampling Dual Trace, $40.00
5A14 Four Channel, $100.00
5A15N Single Trace Amplifier DC-2MHz, $35.00
5A18N Dual Trace Amplifier, $79.50
5A21N Differential Amplifier, $50.00
5A24N Single Trace Amplifier DC-2MHz, $30.00
5A38 Dual Trace, $45.00
5A48 Dual Trace, $60.00
5B10 Time Base / Amplifier, $50.00
5B12N Dual Time Base, $85.00
5B25N Digitizer / Time Base / Amplifier, $99.00
5B40 Time Base, $60.00
5B42 Delaying Time Base, $85.00
5D10 Waveform Digitizer, $100.00
5T3 Time Base, $65.00
7A13 Differential Comparator, $125.00
7A15A Amplifier, $60.00
7A16A Amplifier, $99.00
7A17 Amplifier, $40.00
7A18 Dual Trace Amplifier, $125.00
7A19 Amplifier, $125.00
7A22 Differential Amplifier, $150.00
7A26 Dual Trace Amplifier, $99.00
7B50 Time Base, $155.00
7B53A Dual Time Base, $179.00
7B70 Time Base, $79.00
7B71 Delaying Time Base, $175.00
7B80 Time Base, $125.00
7B85 Delaying Time Base, $150.00
7B87 Time Base, $175.00
7B92A Dual Time Base, $199.00
7CT1N Curve Tracer, $300.00
7D01 Logic Analyzer, $40.00
7D11 Digital Delay, $100.00
7D15 225MHz Counter / Timer, $199.00
10A2 Dual Trace Amp, $50.00
11B1 Time Base, $40.00
53/54K Fast Rise .05-20V/cm, $20.00
72 Dual Trace Amplifier, $45.00
80 Single Trace DC-80MHz, $40.00
82 Dual-Trace for Tek 581/585/A, $50.00
AM-6565/U Amplifier (7A15AN11), $45.00
B Wideband 50mv-20V/cm, $25.00
CA Dual-Trace DC-24 MHz, $40.00
DF1 Display Formatter, $40.00
DF2 Display Formatter, $40.00
DL2 Digital Latch, $50.00
H Wideband 50mv-20V/cm, $25.00
L Wideband High Gain, $30.00
M Four Channel DC-20 MHz, $39.50
O Operational Amplifier, $50.00
P Rise Time Test Unit, $25.00
Q Transducer-Strain Guage, $85.00
Z Differential Comparator, $85.00

TEK 7603N11S

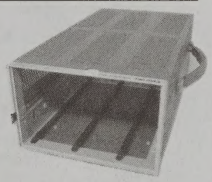


AN/USM-281C (Tektronix 7603-N11S) OSCILLOSCOPE, modern, versatile 7000-Series scope with large 8 x 10 cm display and at least 65 Mhz response. Includes two AM-6565 (7A15AN11) single-trace and one TD-1085 (7B53AN11) dual time base plug-ins plus the 100 Mhz mainframe accepts standard Tek 7000-Series plug-ins. Vertical deflection 5 mV - 10 V/div in 11 calibrated steps, 1-2-5 sequence; vernier to 25 V/div. Sweeps: Normal, Intensified Delay, Delayed and Mixed. Rate 0.05 uS - 5 S/div in 25 steps, 1-2-5 sequence; 5 NS rate using x10 magnifier. Delayed rate 0.05 uS to 0.5 S/div in 22 steps. Requires 100-120/200-240 VAC 48-440 Hz. With book; 11.5x9.7x25.2, 52 lbs.
#USM-281C-UR, Used-Reparable, $320.00
#USM-281C-CH, Checked, $400.00
Manual repro f/ USM-281C only, #MM-USM-281C,$30

+ +

ADAPTERS for USM-281C/TEK7603:
ADAPTER BNC (f) - UHF (m) #103-0015, $2.50
ADAPTER BNC (m) -UHF (f) #103-0032, $2.50
ADAPTER BNC (m) to post, #103-0033, $2.50
T-CONNECTOR, BNC (f-m-f) #103-0030, $3.00
CABLE, 8 ft BNC, 50 ohms, #012-0118, $4.00

TEK 500 Modules / Plug-ins



The TEK TM503 Power Module benchtop mainframe is a three wide power module compatible with all TM500 Plug-Ins. It provides unregulated DCand AC supplies and non-dedicated power transistors for plug-in usage.
17x8.35.9, 14 lbs sh. #TM503, $125.00
Four Wide Power Module, #TM-504, $145.00
Five Wide Portable w/ covers, #TM-515, $169.00

Part Number for plug-ins below:
#TEK-(specify model)

AM502 Differential Amplifier, $195.00
AM503 Current Probe Amplifier
(no probe included), $179.00
DC501 Counter 110 MHz, $199.00
DC502 (opt. 1) Counter, $199.00
DC503 Universal Counter, $129.00
DC504 Counter / Timer, $129.00
DC504A Frequency CounterDC-100MHz, $199.00
DM501 Digital Multimeter, $99.00
DM502 Digital Multimeter, $149.00
FG501 Function Generator, $129.00
FG503 Function Generator, $129.00
PG501 Pulse Generator, $129.00
PG505 Pulse Generator, $225.00
PS501 Power Supply, $89.00
SG503 Leveled Sine Wave Generator, $499.00
TG501 Time Mark Generator, $499.00

*****TEK 5000 Plug-in *****
FG5010 Programmable Function Generator, $999

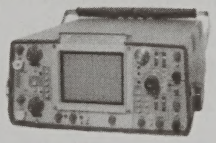
275 MHz Scope

HEWLETT-PACKARD 1720A PORTABLE SCOPE, DC to 275 MHz response with dual channels, large 6x10 CM display, and selectable input impedance 50 ohms or 1 meg-ohm. Modes Channel A or B, A+B, A & B alternating, A & B chop. Deflection: 5 mv-5 V/div in 10 calibrated steps, 1-2-5 sequence plus vernier to 12.5 V. Sweep: 10 ns-0.2 s/ div in 23 steps, vernier to 0.5 sec and X10 magnifier. Trigger normal, auto or single. Delay sweep: 10 ns-0.1 s/div in 22 steps, vernier to 0.25 sec; delay time varies 0.02 us-2 sec. Calibrator 1 KHz squarewave, 1 V p-p. Requires 115/230 VAC 50-440 Hz, 38 lbs.
#HP-1720A-UR, Used Reparable, $375.00
#HP-1720A-CH, Checked, $475.00

Similar except DC-150MHz, reparable, #HP-1710A,$325
Similar except DC-100MHz, reparable, #HP-1741A,$275

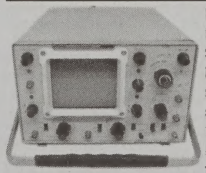
Manual repro for HP-1710A, #MM-HP-1710A, $30
Manual repro for HP-1720A, #MM-HP-1720A, $30

TEK 100 MHz Scope



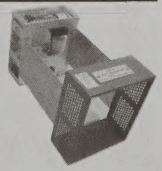
TEKTRONIX 465M (AN/ USM-425) OSCILLOSCOPE, militarized portable dual-trace unit has response DC to 100 MHz and 8x10 CM display. Deflection 5 mv to 5 V/div in 10 calibrated steps, 1-2-5 sequence plus vernier. Vertical modes: TRIG View, 20 MHz BW, CH 1, ALT, Add, Chop, CH 2 or X-Y. Sweep 0.05 usec to 0.5 sec/div in 22 steps plus vernier; delay 0.05 usec to 50 msec/ div. Inputs: 1 Megohm paralleled by 20 pf. Also X10 magnifier, adjustable handle, and manual copy. Front cover is not available. Requires 100-132/ 200-264 V 48-440 Hz; 19.2x12.8x7, 32 lbs sh. #TEK-465M-UR, Used physically OK but power supply troubles,$225
#TEK-465M-CH, Checked, $375.00

20 MHz Scope



BALLANTINE 1066B PORTABLE OSCILLOSCOPE, Dual-trace unit has DC-20MHz response and 5 mV/cm sensitivity. Rise time is 17.5 nsec. Time base includes x10 magnifier for speeds from 50 nsec/cm to 25 sec, full-screen. 18x12.5x7.1, 23 lbs sh. #BAL-1066B-UR,
Used Reparable with manual repro, $150.00

Tek Plug-in Adapter



Tektronix type 81 DC-30MHz Vertical Plug-in Adapter. Allows the use of all 1-series and letter-series plug-ins with 580-series oscilloscopes. Tube type version. 12.2x5.9x7.1, 6 lbs sh.
#TEK-81, Used, $29.95

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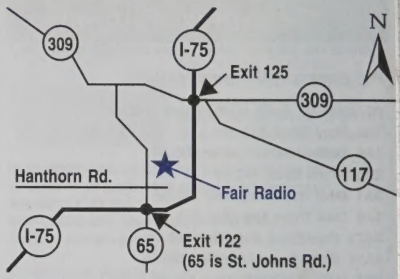


100KV Capacitor

0.4 MFD 100,000 VDC CAPACITOR, A high voltage experimenter's dream! 41" long x 8.7" diameter 0.4 MF 100,000 VDC capacitor removed from an exotic government project! Non PCB. 1.4"L x .5" dia #18 stud ends, 97 lbs sh. #100MV04, $350.00

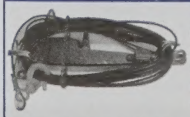
Spanner Wrench

SPANNER WRENCH FOR MILITARY GRC CONNECTORS. Fits the retainer ring on the GRC and VRC connectors. Makes it much easier to take those connectors apart. Set contains the following sizes: 0.6", 1.25", 1.45", 1.6", 1.85". 1 lb sh. #SPAN-GRC, Unused but need cleaning. $16.95

TS-656 Test Meter

TS-656 Electrical Meter Test Set supplies accurately metered AC and DC voltages and DC current to test meter movements. AC, DC voltages 0 to 2.5, 5, 10, 25, 50, 100, 250, 500. DC current: 0 to 100 ua, 250 ua, 500 ua, 1 ma, 2.5 ma, 5 ma, 10 ma 25 ma 50 ma, 100 ma, 250 ma, 500 ma and 1 amp. Requires 120 v 60 hz. 55 lbs sh. 17.75 x 14.25 x 11.75, With operators info. #TS-656, Used Reparable, $149.50

Steel Guy Assembly



1/8 inch steel guy cable on steel bracket with locking pulley and tension adjustment. Use for field day antenna guy or other wire support use. 9 lbs., Used,

#GUY-36, 36 ft, $19.95
#GUY-44, 44 ft, $21.95
#GUY-62, 62 ft, $27.95

Sweep Generator

SG-677 Sweep Generator, solid-state covering 0.5 to 1200 MHz in ranges 0.5-300 & 300-1200 MHz; output 0.5Vrms into 50 ohms. Sweep width continuously variable 0.01-1 MHz (Narrow), 0.5-400MHz (Wide). Sweep rate continuously variable, 5-60 Hz. Attenuation 0-70DB in 10DB steps + vernier; markers 1-10-50MHz. Requires 115VAC 60/400Hz. 10.5x19x17, 38 lbs sh. #SG-677, Used Reparable, $275.00; Manual Repro, $15.00

Coax Relay

RE-275 APDT Coax Relay, operates over 100-400 MHz, 24-28VDC coil. VSWR better than 1.1; cross-talk better than 60DB. Three BNC connections. 2.5x 3.2x1.7, 2 lbs sh. #RE-275, Used, $25.95

Antenna Loop

Each loop is constructed of interlocking plastic structural bars and spreaders to form the loop. The spreader has notches for 24 turns of enameled wire which is wound around the framework. Each section of the loop is approximately 3"x7.5"

Hexagon loop kit(6 sides) 330 microhenries, aperture of 153 sq in. #6HEXLOOP, $9.95
Octagon loop kit (8 sides) 490 microhenries, aperture of 280 sw in. #8OCTLOOP, $12.95
Decagon loop kit (10 sides) 660 microhenries, aperture of 440 sq in. #10DECLOOP, $14.95

Flat plate sliding capacitor kits use w/ above loops.
Three plate capacitor 10 - 180 pf #3PLATECAP $13
Five plate capacitor 10 - 365 pf #5PLATECAP $15

Power Amplifier ARC-105

HF Power Amplifier from ARC-105, 400 W PEP 125 W AM 2- 30 mhz in 8 bands. Module has two 7204 tubes and associated output tuning circuitry. Band selection is controlled by 28 vdc motor. The grid tuning circuitry is NOT part of this module. Output inductor is tuned with 115 v 400 Hz motor. Requirements 1500 VDC, 28 VDC, 27 VAC filament, 115V 400 Hz. #PA-105, $125

Vintage Radios !!!

VINTAGE RADIO LINE ITEMS see our website http://www.fairradio.com/Vintage.htm for current stock. At time of printing we had these items in stock. All items are used not checked.

RT-178/ARC-27 UHF 225 -400 mhz AM Transceiver and control box with connectors. $175.00
R-5A/ARN-7, $150.00
BC-348 Various models, Email or Write
RT-82/APX-6 IFF 800-1300 MHz, $95.00
AN/GRR-5, AC only, $225.00
ARC-1 less front cover, $125.00
BC-433 Radio, $150.00
T-67/ARC-3 Transmitter, $80.00
R-77/ARC-3 Receiver, $75.00

Tesla Books

"Tesla: The Lost Inventions", Here are the suppressed inventions of Nikola Tesla. His later inventions, have never been utilized as Tesla intended despite their potential for advancing technology of modern civilization. Among these inventions: high-frequency lighting, the magnifying transmitter, a radical high-power radio, and many more. 42 illustrations.
#BK-TLOST, List price, $7.75; Our price, $6.95

"Tesla Coil", You'll find a wealth of information on one of the best-kept secrets of electric technology, plus all the facts you need to build a Tesla coil on any scale. A well-tuned coil's output is harmless but can perform amazing tasks. Light your home, farm, or ranch at a fraction of the usual cost. Build a powerful radio transmitter. 26 illustrations.
#BK-TCOIL, List price, $7.75; Our price, $6.95

"Son of Tesla Coil", Can Tesla coils do real work? Can they power an alternative fluorescent lighting? Build a "third generation" Tesla coil. Discover the magic of oil immersion, of close coupling, and of precise pulsing. Learn how to drive a Tesla coil from low-voltage battery power. Build a solid-state pulse generator and a Tesla lighting plant. Can battery-powered Tesla technology aid us in the next big blackout? Will Tesla be the next big step forward in home power? 40 illustrations.
#BK-TSON, List price, $7.75; Our price, $6.95

"Radio Tesla", The Secret of Tesla's Radio and Wireless Power. This booklet details the radical radio technology of Nikola Tesla. Early elemental wireless devices like Tesla's and many others shown in this booklet are worthy of study because they remind us that powerful radio technologies can be so simple and accessible. Modern radio took a lot from Tesla, but what did it ignore? Also in these pages: grounding rediscovered, the suppression of amateur radio, radio-free energy and much more. 66 illustrations.
#BK-TRADIO, List price, $7.75; Our price, $6.95

"Tesla: The True Wireless", In Nikola Tesla's own words, this is the inventor's final published statement on how radio, at the radical, really works. He insists that the amount of energy that can be transmitted is "billions of times greater" than conventional radio would allow. Can we transmit electric power to our homes and workplaces without wires? Can the unsightly and fragile grid come down? Tesla says Yes. 21 illustrations.
#BK-TTRUE, List price, $7.75; Our price, $6.95